

Body Shell, Exterior Trim, Frames and Underbody

**GROUP
48**

PART	PAGE	PART	PAGE
PART 48-01		PART 48-04	
General Body, Exterior Trim, Frame and Underbody Service	48-01-01	Exterior Trim and Body Sealer	48-04-01
PART 48-02		PART 48-05	
Grilles	48-02-01	Frames and Underbody	48-05-01
PART 48-03			
Bumpers	48-03-01		

PART 48-01 General Body, Exterior Trim, Frame and Underbody Service

COMPONENT INDEX Applies To All Models	All Models	COMPONENT INDEX Applies to All Models	All Models
BODY MAINTENANCE.....	01-02	RATTLE ELIMINATION.....	01-02
DRAIN AND DUST VALVE		TRIM	
Cleaning and Inspection	01-02	Cleaning	01-02
DUST AND WATER LEAK REPAIR.....	01-01		
FLOOR PAN PLUGS AND GROMMETS			
Cleaning and Inspection	01-02		

A page number indicates that the item is for the vehicle(s) listed at the head of the column.

1 ADJUSTMENTS AND REPAIRS

DUST AND WATER LEAKS

Sealer locations should be considered when checking for dust or water leaks. The forward motion of the vehicle creates a slight vacuum within the body, particularly if a window or ventilator is partially open. Any unsealed small opening in the lower section of the body will permit air to be drawn into the body. If dust is present in the air, it will follow any path taken by the air from the point of entry into the passenger and luggage compartments. Opening the ventilator air ducts will equalize these pressures. Dust accumulates in the rocker panel, and may eventually work its way to

the kick-up or the rear body pillar, and follow the contour of the wheelhouse into the luggage compartment.

To eliminate dust leakage, determine the exact point at which the dust enters. The point of entry is often deceptive in that the dust may enter at one point, then follow the passages formed by interior trim to another point.

Under certain conditions, water can enter the body at any point where dust can enter. Any consideration of water leakage must take into account all points covered under dust leaks.

To determine the exact location of a dust leak, it may be necessary to remove the following trim from the ve-

hicle:

1. Cowl trim panel.
2. Quarter trim panel.
3. Rear seat back and seat cushion.
4. Luggage compartment floor mats, spare wheel, and side trim panel.
5. Center pillar trim on 4-door models.
6. Scuff plates.

After removing the trim, the location of most leaks will be readily evident. The entrance of dust is usually indicated by a pointed shaft of dust or silt. Seal these leaks, and road test the vehicle on a dusty road to make sure that all leaks are sealed.

After the road tests, check for indi-

cations of a dust pattern around the door openings, cowl panel, lower part of the quarter panel, and in the luggage compartment.

Sometimes leaks can be located by putting bright lights under the vehicle, with the above components removed,

and checking the interior of the body joints and weld lines. The light will show through where leaks exist.

2 CLEANING AND INSPECTION

FLOOR PAN PLUGS AND GROMMETS

Many plugs and grommets are used in the floor pan and dash panel. The floor-pan plugs seal the various access holes. If any plugs are missing or improperly installed, a dust or water leak may result. This also applies to the grommets used on the dash panel. When dust or water leaks are evident, these plugs and grommets should be checked for proper installation.

DRAIN AND DUST VALVES

Drain and dust valves are provided in the bottom of each door, in each rocker panel, and in each quarter panel. These valves are located in the lowest points in the panels. The weight of the water will open the valve and allow the water to escape from the panel. After the water has drained, the valve will close and prevent the entry of dust. The drain valves should be inspected periodically to make sure that they are not obstructed.

RATTLE ELIMINATION

Most rattles are caused by a loose bolt or screw. Foreign objects such as nuts, bolts, or small pieces of body deadener in the door wells, pillars and quarter panels are often the source of rattles. Door wells can be checked by carefully striking the underside of the

door with a rubber mallet. The impact made by the mallet will indicate if loose objects are in the doorwell.

All bolts and screws should be tightened periodically. In the event that tightening the bolts and screws, located on such assemblies as the doors, hood, and deck lid does not eliminate the rattles, the trouble is probably caused by misalignment. If this is the case, follow the adjustment and alignment procedures for these assemblies.

Rattles and squeaks are sometimes caused by weatherstripping and anti-squeak material that has slipped out of position. Apply additional cement or other adhesive, and install the material in the proper location to eliminate this difficulty.

TRIM

The bright metal parts of the vehicle require no special care. Periodic cleaning will preserve the beauty and life of these finishes. Wash with clear water or if the parts are very dirty use FoMoCo COAA-19B521-A compound. Using a clean soft cloth or a sponge and water, rinse and wipe the parts dry. FoMoCo Chrome Cleaner may be used sparingly to remove rust or salt corrosion from chrome plated parts. Do not scour aluminum or chrome finished parts with steel wool or polish them with products containing abrasives. A FoMoCo Polish will

provide excellent protection for all bright metal parts.

BODY MAINTENANCE

Regular body maintenance preserves the vehicle's appearance and reduces the cost of maintenance during the life of the vehicle. The following steps are suggested as a guide for regular body maintenance:

1. Vacuum the interior thoroughly and wash the vehicle.
2. Check all openings for water leaks, and seal where necessary.
3. Cement all loose weatherstrips which are still usable.
4. Replace all door and deck lid weatherstrips which are unfit for service.
5. Apply silicone lubricant to the weatherstripping.
6. Replace all cracked, fogged, or chipped glass.
7. Align the hood, doors, and deck lid if necessary.
8. Inspect the windshield wiper blades and replace them if necessary.
9. Tighten the sill plate and garnish moulding screws.
10. Clean the seats, door trim panels, and headlining.
11. Touch up or paint chipped or scratched areas.
12. Drain holes located on the underside of each rocker panel, quarter panel, and door, should be cleared periodically.

PART 48-02 Grilles

COMPONENT INDEX Applies to Models As Indicated	All Models	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang	Lincoln- Continental	Thunderbird	Continental- Mark III
RADIATOR GRILLE Removal and Installation		02-01	02-01	02-01	02-03	02-03	02-02	02-04	02-03	02-02	02-02	02-04	02-04

A page number indicates that the item is for the vehicle(s) listed at the head of the column.

Whenever high or low series is designated, high series indicates LTD, XL and Country Squire on Ford models; on Mercury models, high series indicates Marquis, Brougham,

Marauder and Marquis Colony Park. On Fairlane models, high series indicates Torino, Torino Brougham, Torino GT, Cobra, and Torino Squire; on Montego models, high series indi-

cates Montego MX, MX Brougham, Cyclone, and Cyclone GT. All other Ford, Mercury, Fairlane and Montego models are low series.

1 REMOVAL AND INSTALLATION

RADIATOR GRILLE—FORD (LOW SERIES)

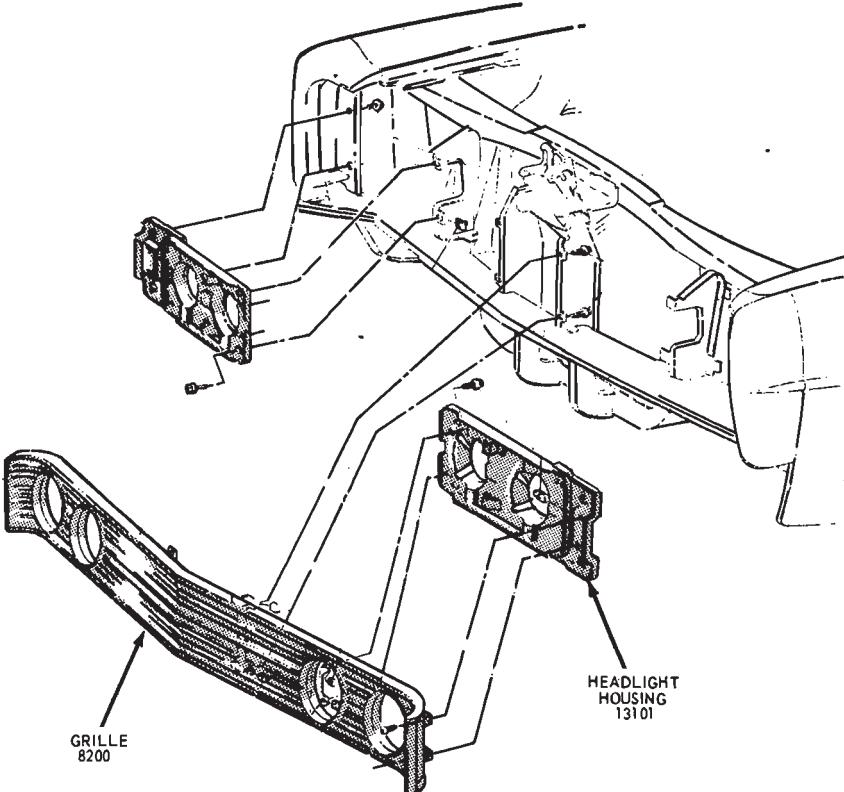
1. Remove the screw retaining each of the four headlight doors and remove the doors.
2. Remove the screws attaching each end of the grille to the headlight housing (Fig. 1).
3. Remove the screws attaching the grille to the hood latch support and remove the grille.
4. Position the grille to the vehicle and install the attaching screws.
5. Install the four headlight doors.

RADIATOR GRILLE—FORD (HIGH SERIES)

1. Remove the screws retaining the center grille to the hood latch support bracket and remove the grille.
2. Remove the screws and retaining nuts attaching the grille moulding to the headlight housing and remove the moulding (Fig. 2).
3. Remove the outer and inner grilles by removing the retaining screws from each grille.
4. Install the inner and outer grilles by installing the retaining screws.
5. Position the grille moulding and install the retaining screws and nuts.
6. Position the center grille and install the retaining screws.

RADIATOR GRILLE—MERCURY (LOW SERIES) AND METEOR

1. Remove the radiator outer grille



N 1247-H

FIG. 1—Radiator Grille—Ford Low Series

(headlight doors).

2. Remove the screws from each end of the center grille (Fig. 3).
3. Remove the screws attaching the center grille to the hood latch support and remove the grille.
4. Position the grille to the vehicle

and install the grille-to-hood latch support attaching screws.

5. Install the screws attaching each end of the grille to the radiator support.
6. Install the right and left outer grilles to the radiator support.

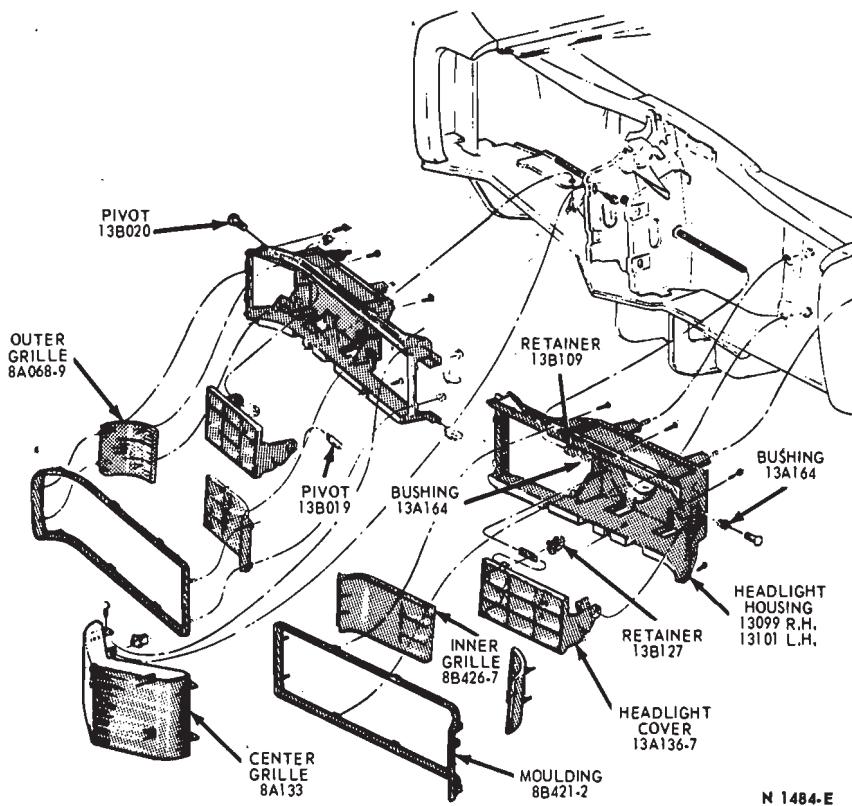


FIG. 2—Radiator Grille—Ford High Series

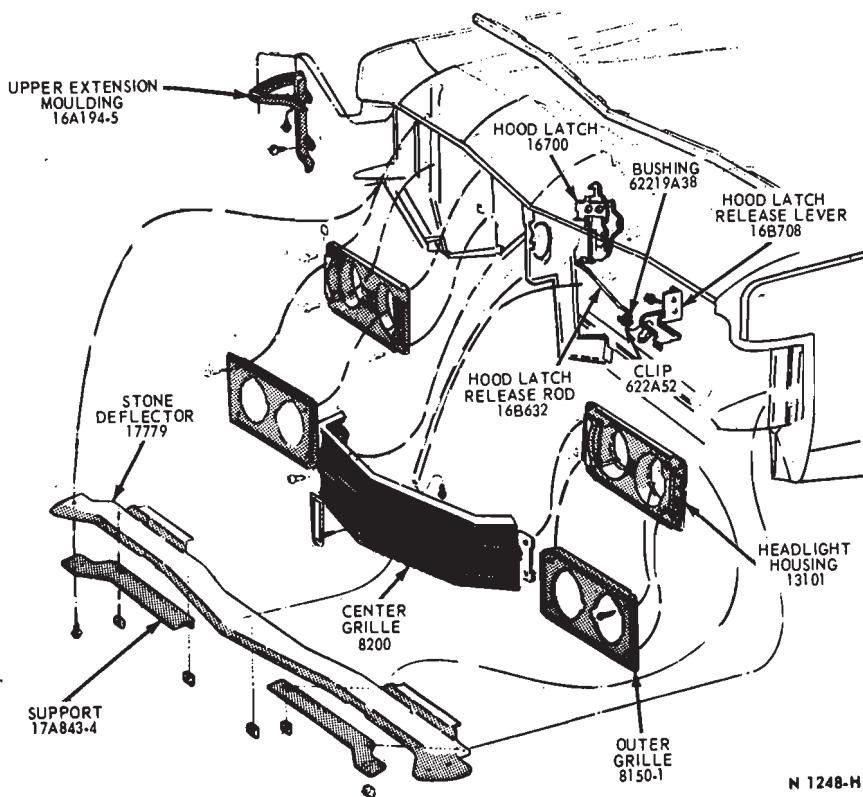


FIG. 3—Radiator Grille—Mercury (High Series) and Meteor

RADIATOR GRILLE—MERCURY (HIGH SERIES)

UPPER CENTER GRILLE

The upper center grille is attached with four screws (Fig. 4). Remove the four screws to remove the grille.

HEADLIGHT COVER TRIM BAR—MERCURY (HIGH SERIES)

Remove two screws attaching the trim bar to the hinge (Fig. 4). Then, remove four screws attaching the trim bar to the headlight cover. (Fig. 4).

FRONT BUMPER GRILLE—MERCURY (HIGH SERIES)

Remove the grille retaining nuts and remove the grille.

RADIATOR GRILLE—LINCOLN CONTINENTAL

1. Remove the retaining screws attaching the center grille to the hood latch support bracket. Remove the center grille.

2. Remove the screws retaining each outer grille to the headlight housing and remove the grilles (Fig. 5).

3. Position the outer grille and install the attaching screws.

4. Position the center grille to the vehicle and install the attaching screws.

RADIATOR GRILLE—MUSTANG

Remove the snap-in rivets from the grille attaching points (Fig. 6). Then, remove the lower center attaching screw at the center support and remove the grille.

RADIATOR GRILLE—FALCON

REMOVAL

1. Remove the headlight door retaining screws and remove the headlight doors.

2. Remove one screw from each end of the grille at the headlight housing.

3. Remove one screw attaching the lower edge of the grille to the radiator support on each side of the radiator.

4. Remove one screw attaching the grille to each grille support and remove the grille.

INSTALLATION

1. Position the grille to the vehicle and install one screw at each end of the grille to attach it to the headlight housings (Fig. 7).
2. Install the two grille to grille support attaching screws.
3. Install the two screws attaching the grille lower edge to the radiator support.
4. Install the headlight doors.

RADIATOR GRILLE—MONTEGO

1. Remove the attaching screws which retain the outer grille to the radiator grille frame. Remove the outer grille.
2. Remove the center grille-to-grille frame attaching bolts from the top of the grille (Figs. 8 and 9). Then, remove the lower attaching bolts and remove the grille.
3. Position the center grille to the vehicle and install the attaching bolts at the top of the grille. Then, install the lower attaching bolt.
4. Position the outer grille and install the retaining screws in each grille.

RADIATOR GRILLE—FAIRLANE

1. If the vehicle is not equipped with headlight covers, remove the outer grille retaining screws and remove the grille (Figs. 10 and 11).
2. Remove the upper attaching bolts from the top of the center grille. Then, remove the lower attaching bolts and remove the grille.
3. Position the center grille to the vehicle and install the upper retaining bolts. Then, install the lower attaching bolts.
4. Position the outer grille (if so equipped) and install the attaching screws.

RADIATOR GRILLE—COUGAR

REMOVAL

1. Disconnect the headlight cover springs to relieve tension on the headlight cover shafts.
2. Remove the cotter keys from the shaft. Then, disconnect the vacuum motor from the headlight cover center shaft.
3. Remove the nuts (1 each side) retaining the headlight cover to the headlight cover shaft (Fig. 12).
4. Slide the headlight cover center shaft sideways and disconnect the headlight center shaft from the cover

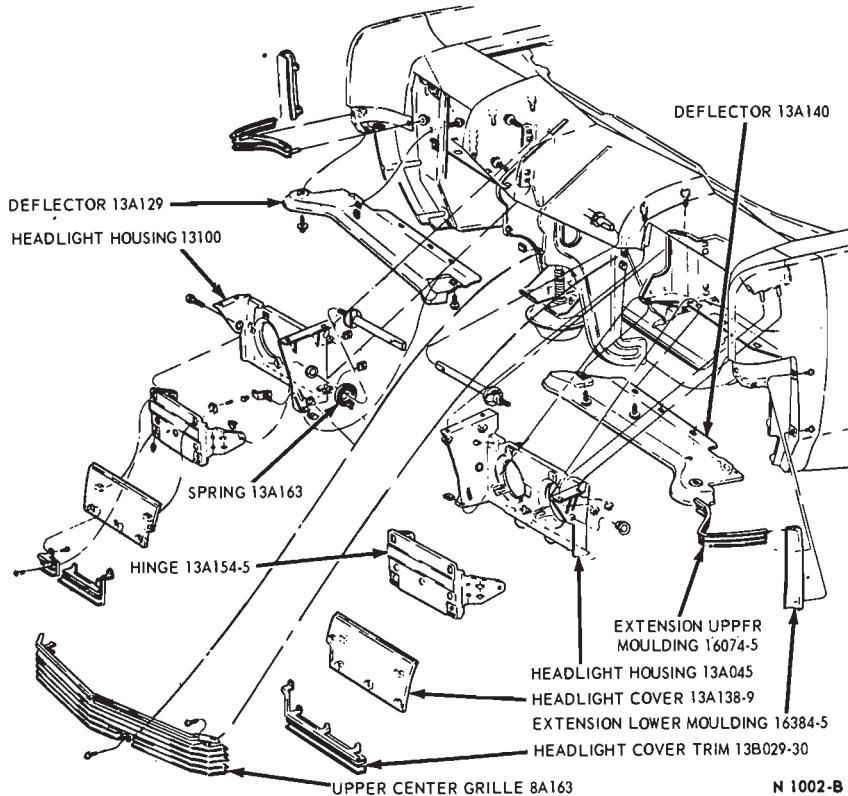


FIG. 4—Radiator Grille—Mercury (High Series)

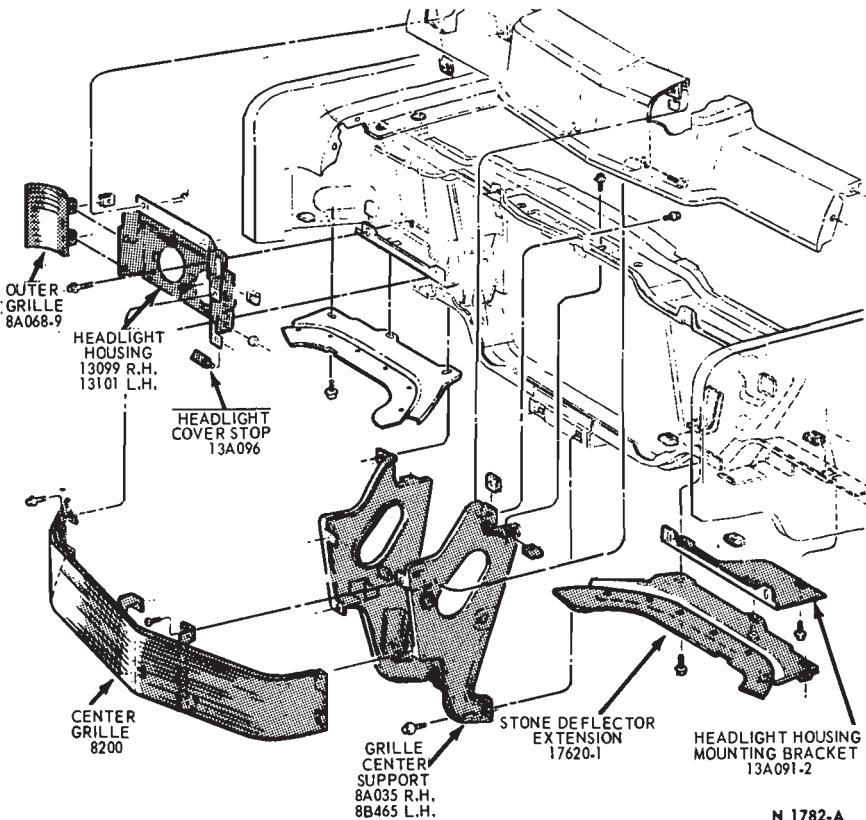
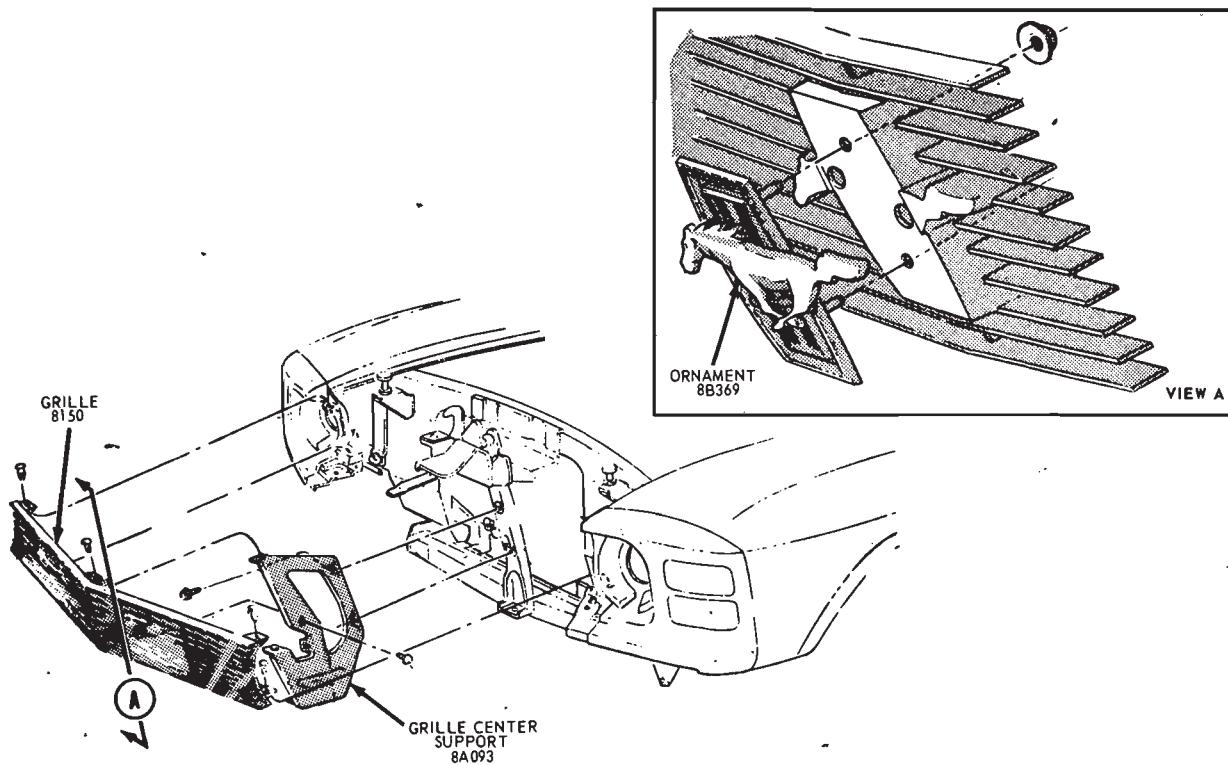


FIG. 5—Radiator Grille—Lincoln Continental



N 1792-A

FIG. 6—Radiator Grille—Mustang

shafts.

5. Disconnect the headlight wires at the headlight bulbs.

6. Remove the screws retaining each grille to the radiator support (Fig. 12).

7. Remove the screws attaching the grille to the hood latch support bracket.

8. Slide the grille sideways and remove the grille from the vehicle.

INSTALLATION

1. Position the grille in the vehicle and install the screws retaining the grille to the radiator support. Then, install the screws retaining the grille to the hood latch support (Fig. 12).

2. Connect the headlight wires.

3. Install the headlight cover shafts. Install the shaft retaining nuts.

4. Install the cotter keys in the shaft.

5. Adjust the headlight cover stops.

6. Connect the vacuum motor to the center shaft.

**RADIATOR
GRILLE—THUNDERBIRD**

Remove the screws retaining the grille to the grille support brackets. Remove the grille from the vehicle (Fig. 13). If the vehicle is equipped with grille mounted parking lights, remove the parking light retaining screws and remove the light lenses before removing the grille.

**RADIATOR
GRILLE—CONTINENTAL MARK III**

1. Remove the lower stone deflec-

tor.

2. Working from under the vehicle, remove eight grille retaining nuts and remove the grille and seal (Fig. 14).

3. Transfer the ornament to the new grille if the grille is to be replaced.

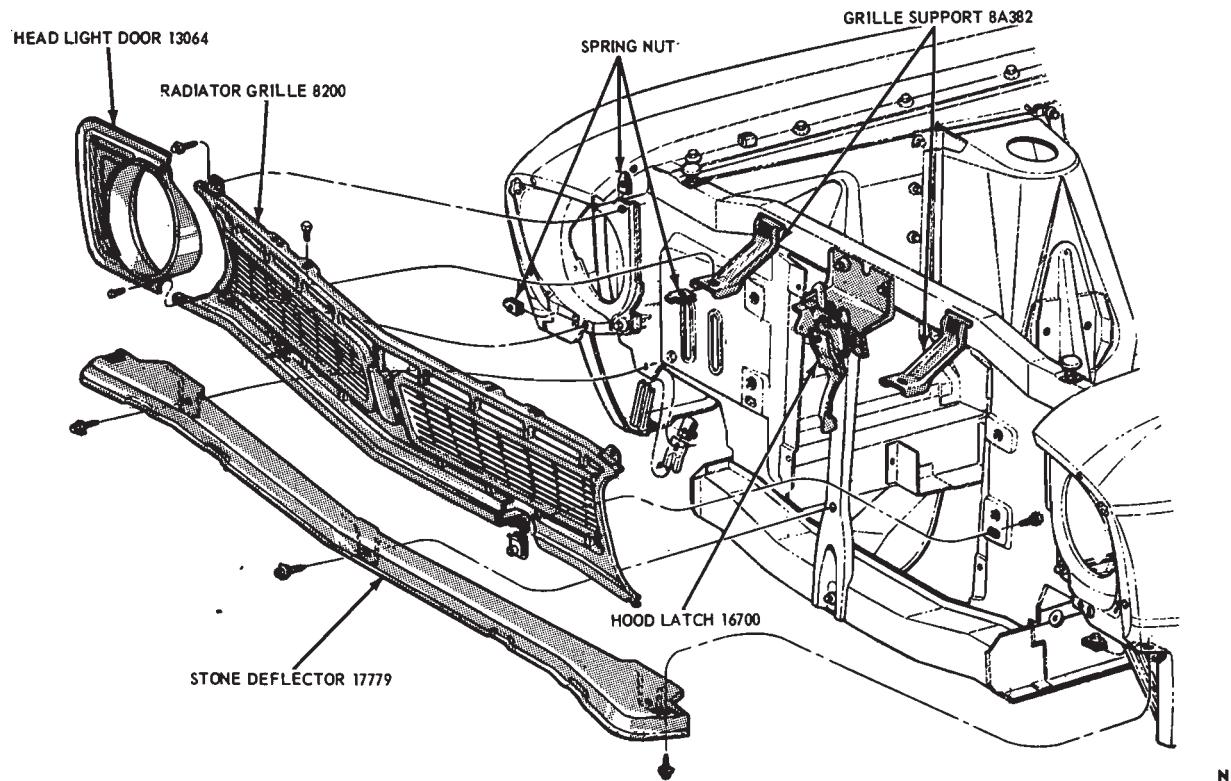
4. Install the seal on the grille.

5. Position the grille and seal to the grille opening finish panel, and install the eight retaining nuts.

6. Install the lower stone deflector.

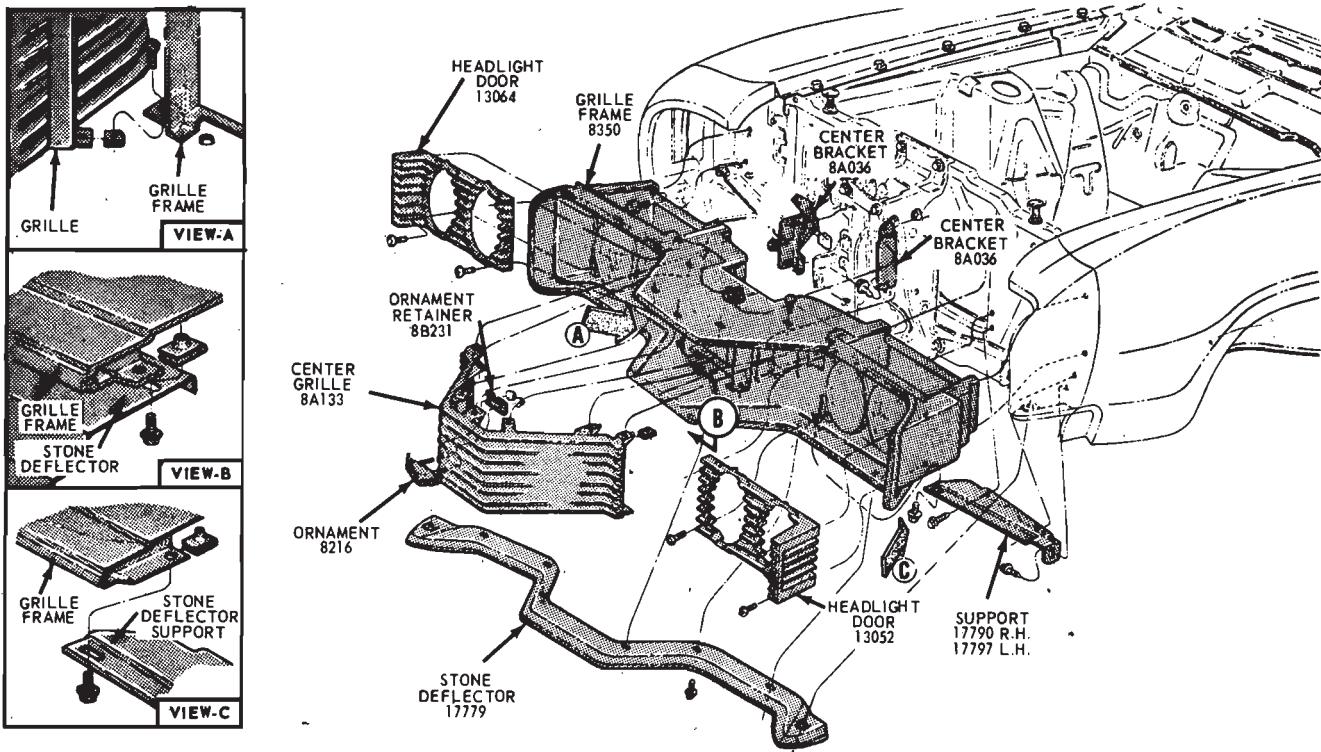
RADIATOR GRILLE—MAVERICK

The grille installation is shown in Fig. 15. To remove the grille, remove the 4 snap rivets retaining the grille to the body. Then, remove the retaining screw from the back center of the grille and remove the grille.



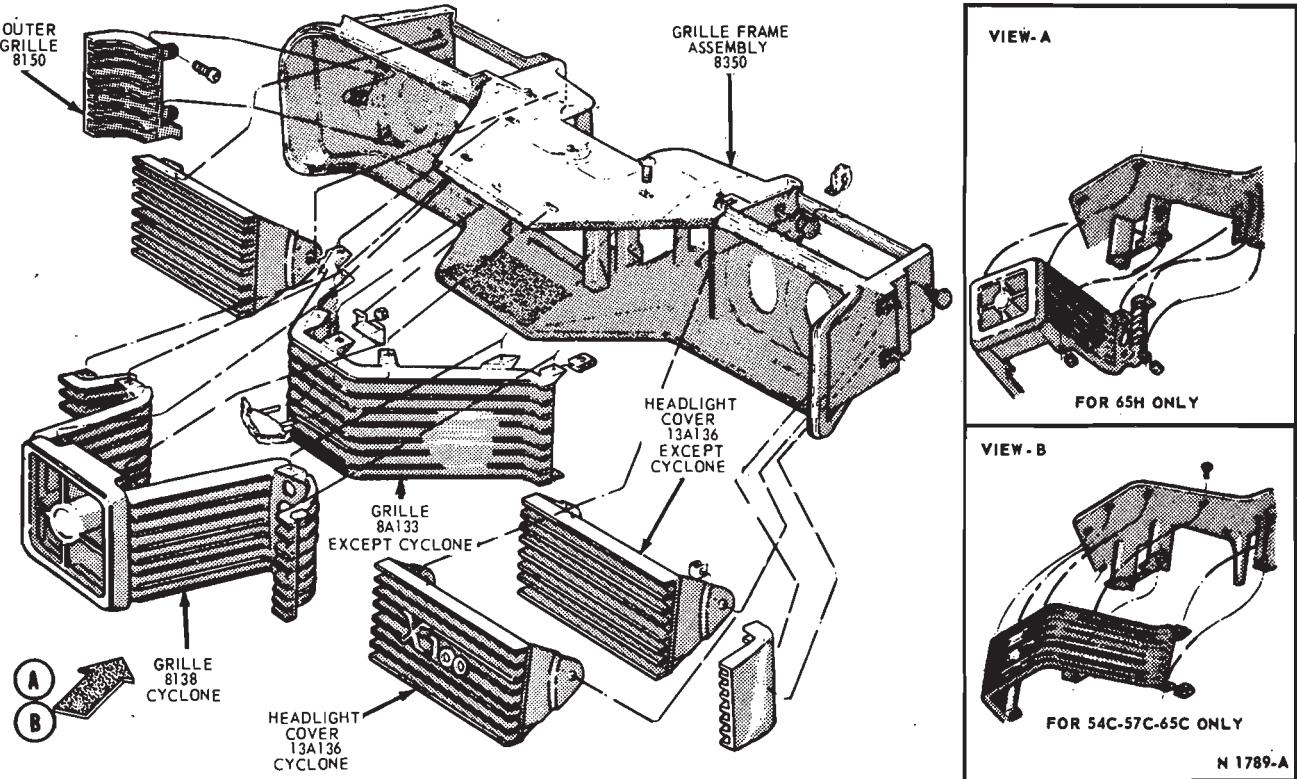
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FIG. 7—Falcon Grille Installation



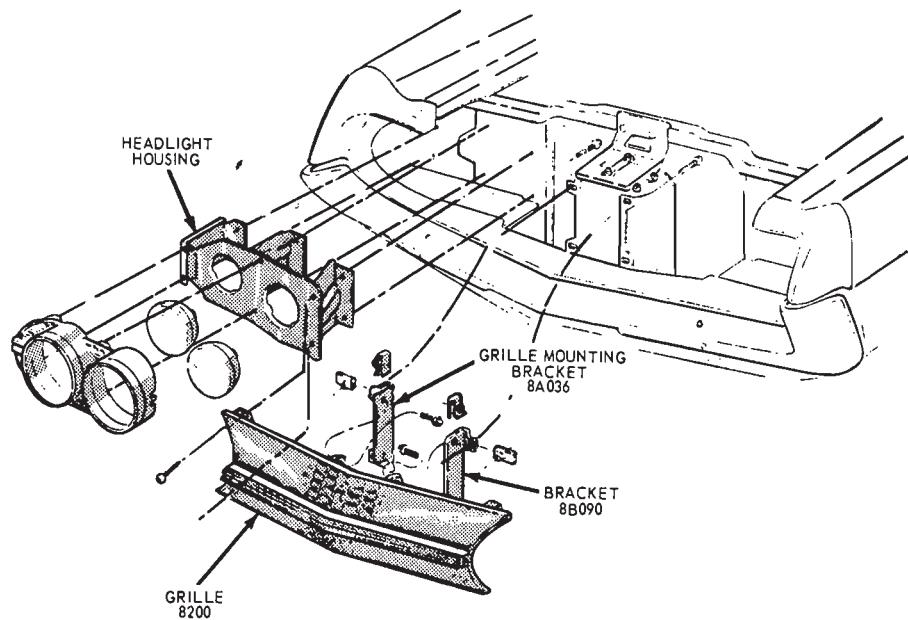
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FIG. 8—Radiator Grille—Montego Low Series



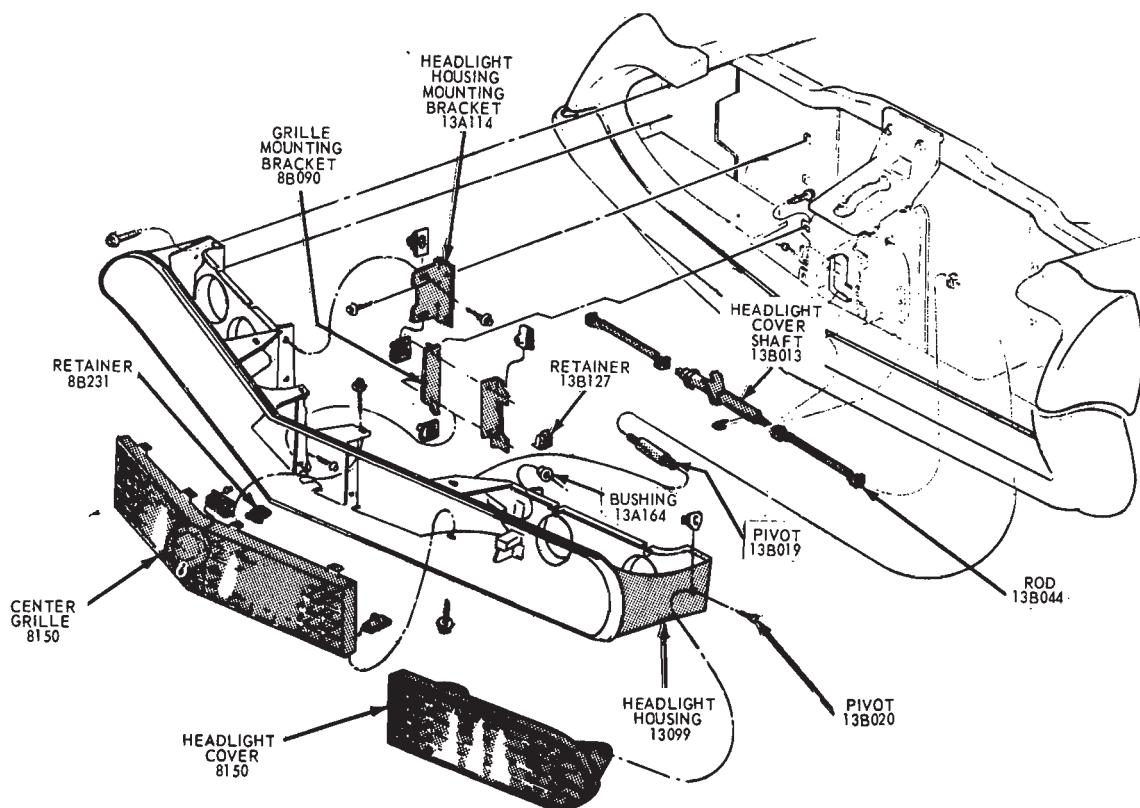
N 1789-A

FIG. 9—Radiator Grille—Montego High Series



N 1784-A

FIG. 10—Radiator Grille—Fairlane Low Series



N 1785-A

FIG. 11—Radiator Grille—Fairlane High Series

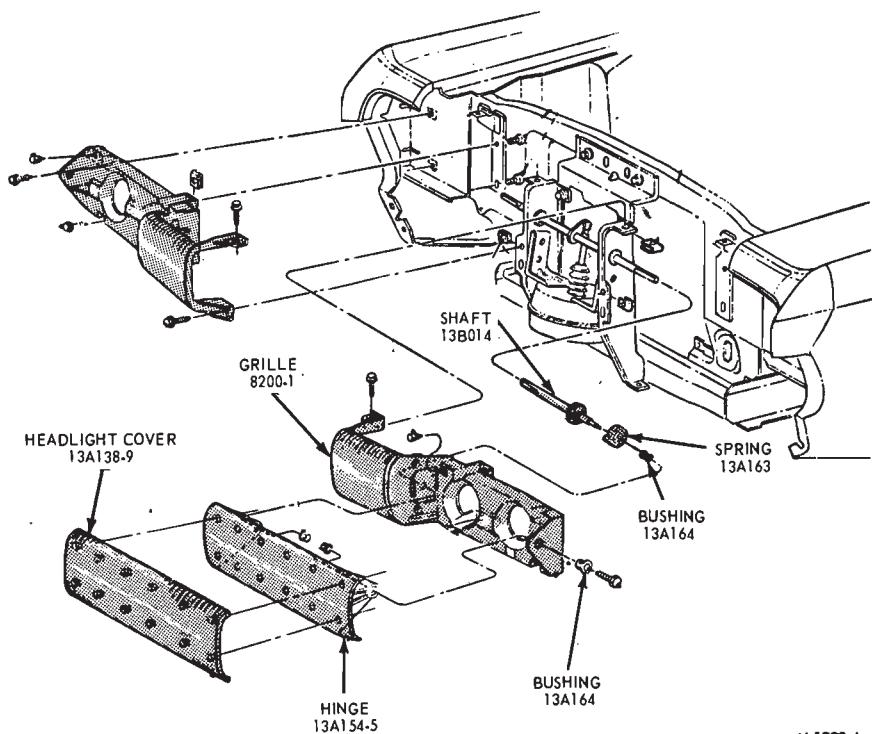


FIG. 12—Cougar Radiator Grille

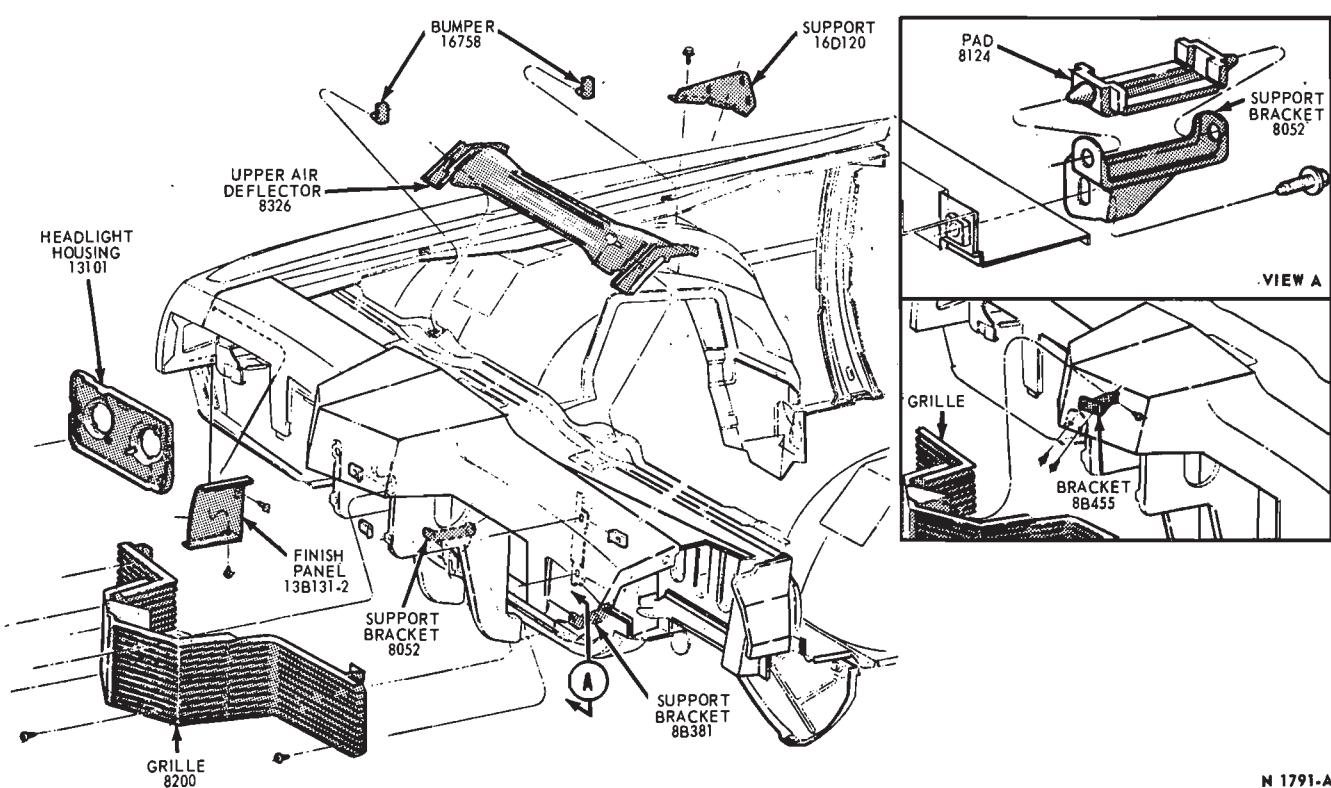


FIG. 13—Radiator Grille—Thunderbird

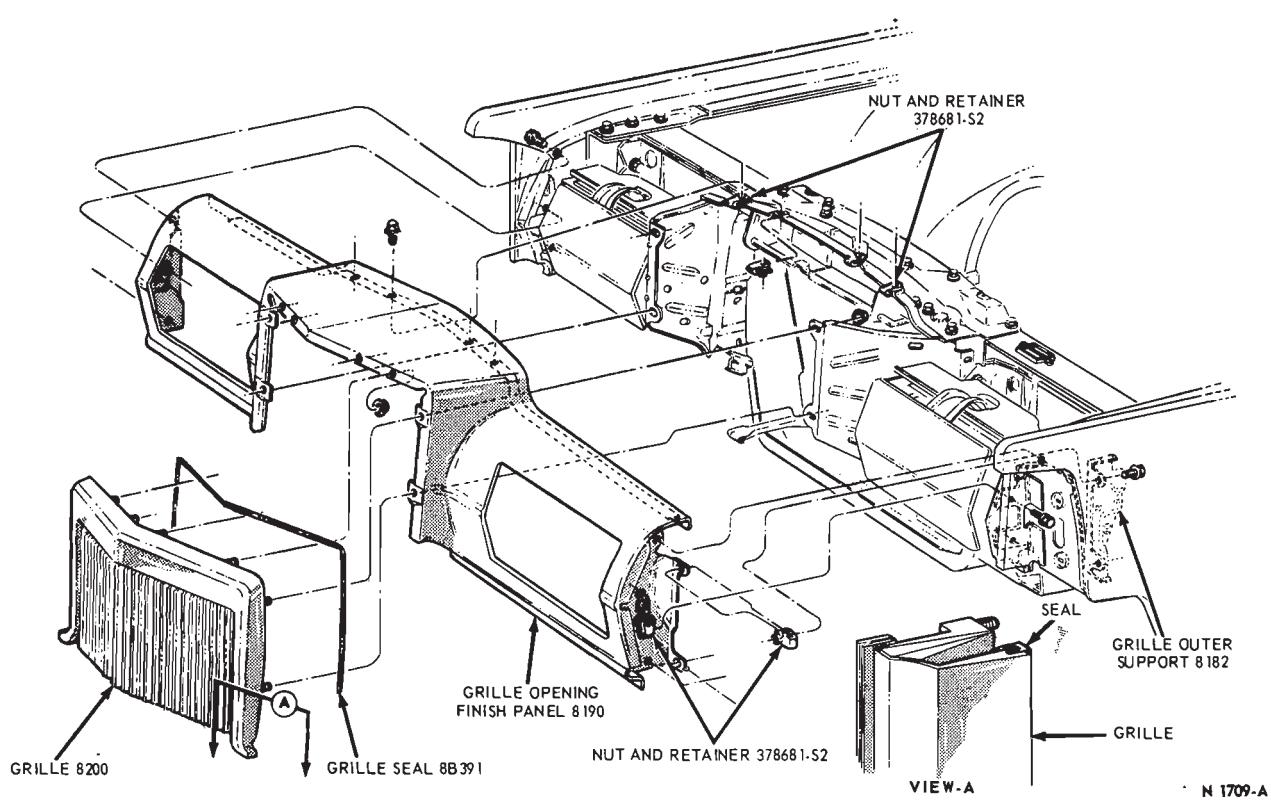


FIG. 14—Grille Installation—Continental Mark III

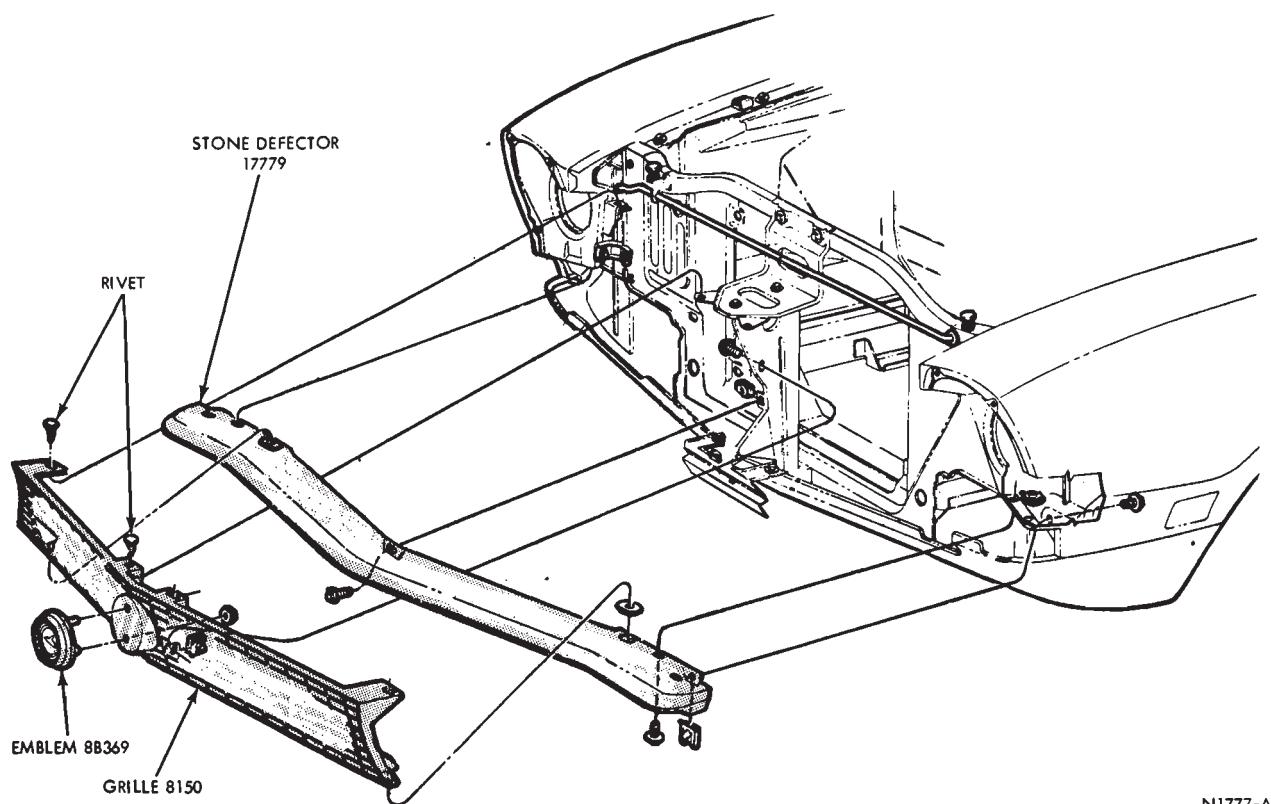


FIG. 15—Radiator Grille—Maverick

PART 48-03 Bumpers

COMPONENT INDEX Applies to Models As Indicated	All Models	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang	Lincoln- Continental	Thunderbird	Continental- Mark III
FRONT BUMPER Removal and Installation		03-01	03-01	03-01	03-09	03-04	03-03	03-13	03-05	03-09	03-11	03-12	03-12
FRONT BUMPER GUARD Removal and Installation		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	03-09	N/A	N/A	N/A
REAR BUMPER Removal and Installation		03-02	03-02	03-02	03-09	03-06	03-04	03-09	03-06	03-09	03-11	03-13	03-12
REAR BUMPER GUARD Removal and Installation		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	03-09	N/A	N/A	N/A

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cates Montego MX, MX Brougham, Cyclone, and Cyclone GT. All other Ford, Mercury, Fairlane and Montego models are low series.

1 REMOVAL AND INSTALLATION

FRONT BUMPER—FORD

REMOVAL

- Disconnect the parking light wires at the multiple connectors.
- Remove the screws attaching the bumper to the reinforcement (Fig. 1) at the license plate opening.
- Remove the bumper attaching bolts and remove the bumper from the bumper arms (Fig. 1).
- Transfer the parking lights and license plate and mounting bracket to a new bumper if replacement is required.

INSTALLATION

- Position the bumper to the bumper arm and install the attaching bolts and nuts. Be sure the spacers are installed in the locations shown in Fig. 1.
- Install the bumper to reinforcement attaching bolts and nuts.
- Connect the parking light wires and adjust the bumper for an interfer-

ence free fit and good appearance.

FRONT BUMPER—MERCURY (LOW SERIES) AND METEOR

REMOVAL

- Remove six bolts attaching the bumper arms to the frame and remove the bumper assembly (Fig. 2).
- Remove the screws attaching the bumper to the reinforcement at the license plate opening (Fig. 2).
- Remove the bumper attaching bolts and remove the bumper from the bumper arms (Fig. 2).

INSTALLATION

- Position the bumper to the bumper arms and install the attaching bolts and nuts. Be sure the spacers are installed in the locations shown in Fig. 2.
- Install the bumper to reinforcement attaching screws.
- Position the bumper and spacer to the frame and install the six at-

taching bolts.

- Adjust the bumper for an interference free fit and a good appearance, and tighten the six attaching bolts.

FRONT BUMPER—MERCURY (HIGH SERIES)

REMOVAL

- Disconnect the parking light wires and push the grommets out of the splash shield hole.
- Remove two bolts attaching the bumper arms to the outside of the frame end plate (Fig. 3).
- Remove one bolt attaching the bumper arms to the inside of the frame end plate and remove the bumper.
- Remove four bolts attaching each bumper arm to the bumper.
- Remove two bolts attaching the reinforcement to the bumper at the license plate opening.
- Remove the bolt attaching the bumper grille center support to the

bumper (Fig. 3).

7. Lift the bumper arms, reinforcement, stone shield, grille and parking lights from the bumper.

Transfer the cage nuts and license plate bracket to the new bumper.

INSTALLATION

- Position the bumper arms, reinforcement, stone shield, grille and parking lights to the bumper.

- Position spacers between the bumper and the arm inner attachment as shown in Fig. 3. Then, install the four bumper arm-to-bumper attaching bolts.

- Install the bolt attaching the bumper grille center support to the bumper.

- Install the two bolts attaching the reinforcement to the bumper at the license opening.

- Tighten the eight bumper arm-to-bumper attaching bolts.

- Tape the spacers to the end of the frame.

- Position the bumper to the vehicle and install the six attaching bolts.

- Align the bumper for a good fit and appearance and tighten the bolts.

- Connect the parking light wires and install the grommets in the splash shield holes.

REAR BUMPER—FORD, MERCURY AND METEOR EXCEPT MODEL 71

REMOVAL

- Open the luggage compartment door.

- Disconnect the license light wire and push the wire and grommet through the back panel.

- Remove two bolts attaching the right and left bumper arms to the frame side rail and remove the bumper.

- Remove two bolts attaching the center of the bumper to the reinforcement (Figs. 4 and 5).

- Remove four bolts attaching each end of the bumper to the bumper arms. Remove the bumper from the bumper arms and reinforcement.

INSTALLATION

- Position the bumper arms and reinforcement to the bumper. Be sure the shims and spacers are as shown in Figs. 4 and 5.

- Install the bumper arm-to-bumper attaching bolts.

- Install the reinforcement-

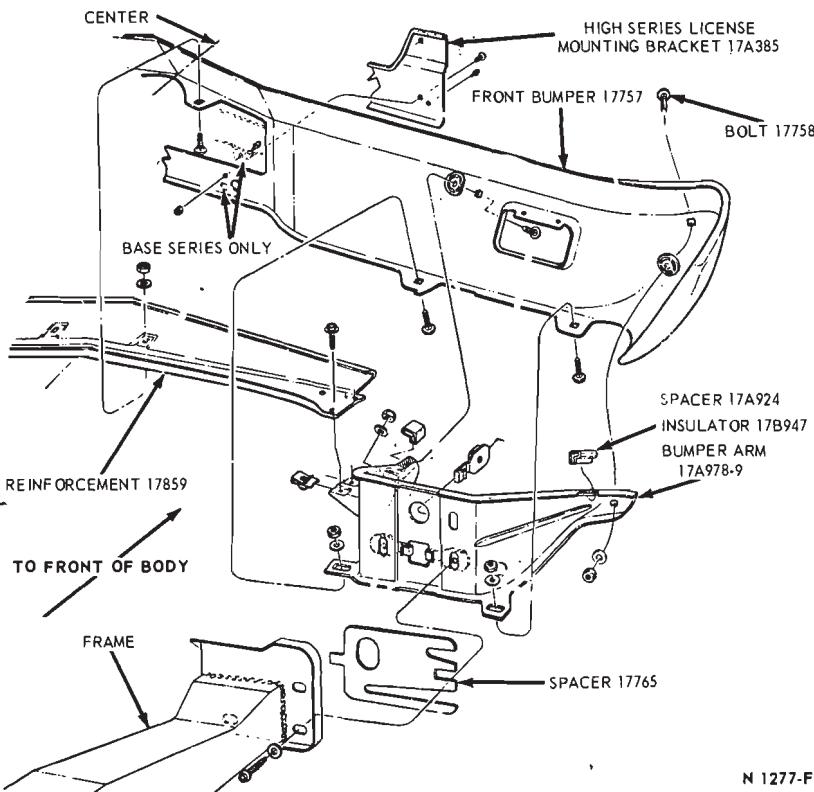


FIG. 1—Front Bumper Installation—Ford

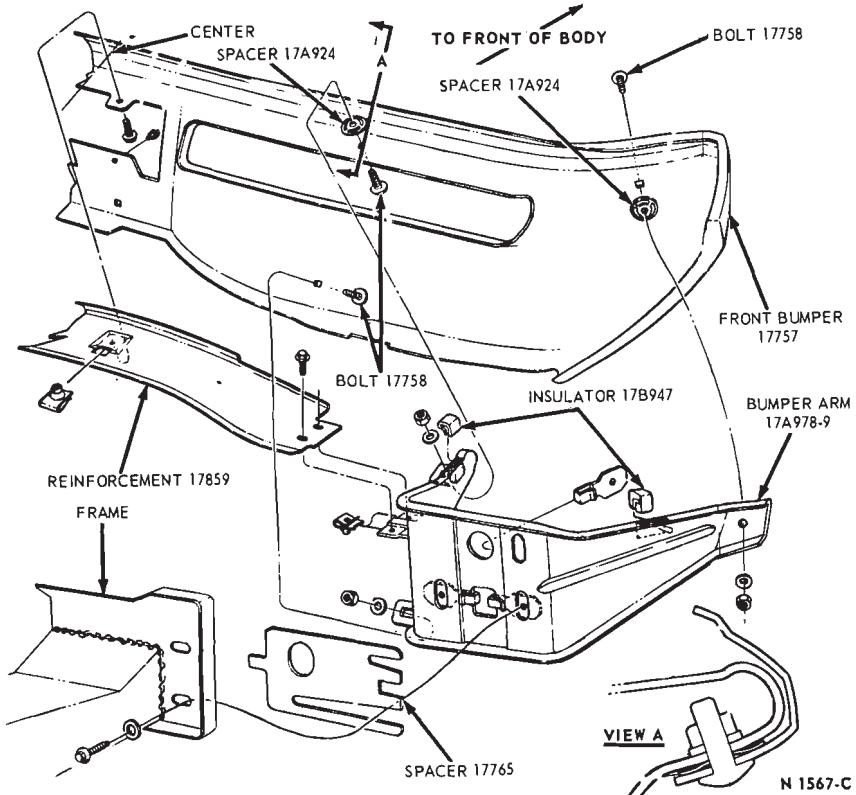


FIG. 2—Front Bumper Installation—Mercury (Low Series)

to-bumper attaching bolts.

4. Position the bumper to the vehicle and install the attaching bolts.

5. Align the bumper for a good appearance and tighten the attaching bolts.

6. Install the license wire grommet and connect the wire.

REAR BUMPER—FORD, MERCURY AND METEOR MODEL 71

REMOVAL

1. Disconnect the license lights at the connectors and remove the license lights.

2. Disconnect the back-up light wires at the connectors.

3. Remove the bumper arm-to-frame attaching bolts and remove the bumper assembly (Fig. 6).

4. Remove the license plates from the bumper.

5. Remove the two bumper-to-reinforcement attaching bolts and nuts (Fig. 6).

6. Remove four bumper arm attaching bolts from each end of the bumper, and separate the bumper from the arms and reinforcement.

7. Remove the end braces and steps from the bumper.

8. Remove the back-up lights.

INSTALLATION

1. Install the back-up lights, end braces and steps on the bumper. Insert spacers between the bumper and the end braces (Fig. 6).

2. Position the bumper arms and reinforcement to the bumper. Place shims and spacers in the locations shown in Fig. 6 and install the bumper-to-bumper arm attaching bolts.

3. Install the two bumper-to-reinforcement attaching bolts and nuts.

4. Position the bumper assembly to the vehicle and install the attaching bolts.

5. Adjust the bumper for a good appearance and tighten the attaching bolts.

6. Install and connect the license lights.

7. Connect the back-up light wires and install the license plates.

FRONT BUMPER—FALCON

REMOVAL

1. Remove two screws attaching each parking light to the bumper and

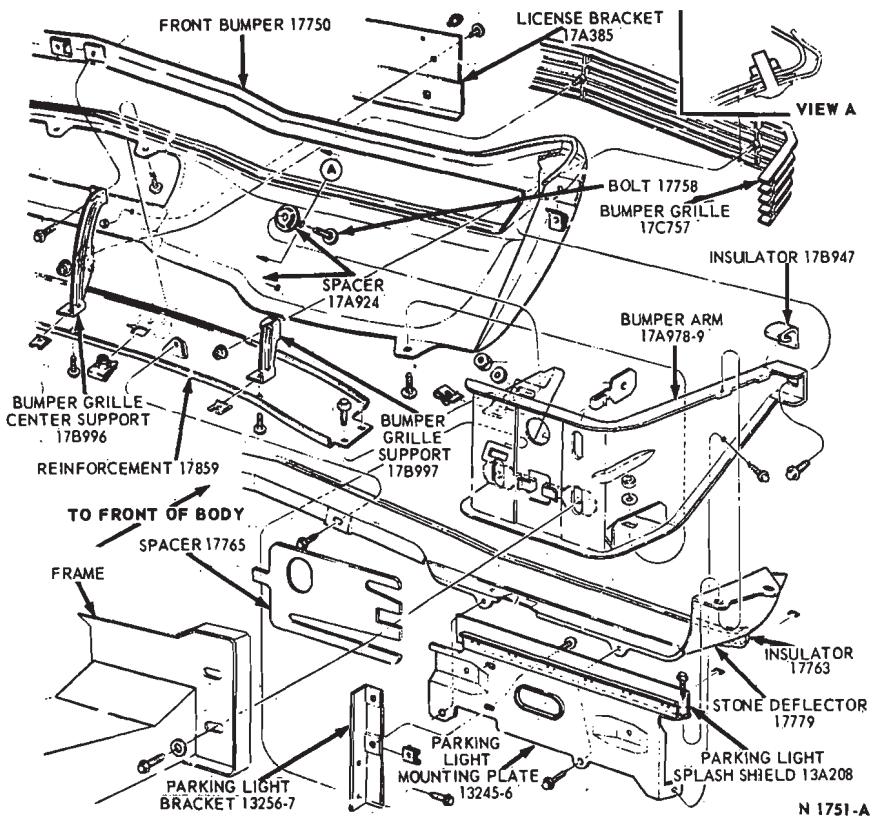


FIG. 3—Front Bumper Installation—Mercury (High Series)

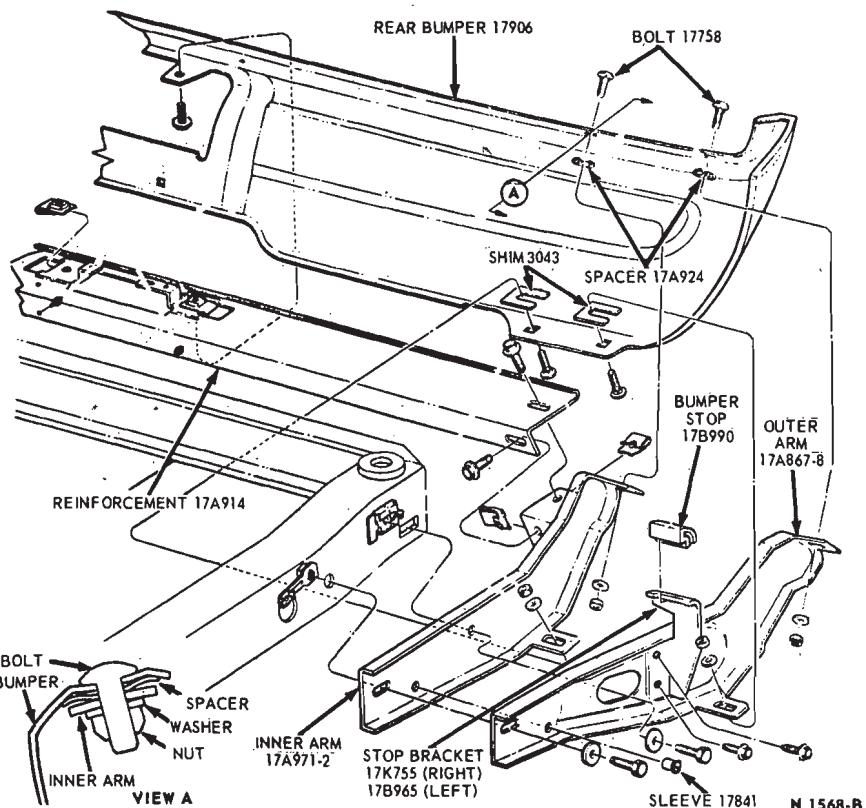


FIG. 4—Rear Bumper Installation—Mercury and Meteor Except Model 71

allow the parking lights to hang by the wires.

2. Remove eight bumper attaching bolts and nuts and remove the bumper from the vehicle (Fig. 7).

3. Remove the license plate, license plate bracket and two anti-rattlers from the bumper (Fig. 7).

INSTALLATION

1. Install the anti-rattlers, license plate bracket and license plate on the bumper.

2. Position the bumper to the bumper and the bumper arms as shown in Fig. 7. Then, install the eight bolts, washers and nuts.

3. Align the bumper for a good appearance fit and tighten the retaining nuts.

4. Position the parking lights to the bumper and install the attaching screws.

REAR BUMPER—FALCON EXCEPT MODEL 71

REMOVAL

1. Remove the screws retaining the license plate lamp assembly to the rear bumper.

2. Remove the rear license plate.

3. Remove the four bumper arm-to-frame retaining bolts (Fig. 8), and remove the bumper assembly.

INSTALLATION

1. Transfer the rear bumper arms, bumper lower extension and rubber bumper to the new bumper.

2. Position the bumper assembly on the car and install the bumper arm-to-frame retaining bolts.

3. Position the license plate lamp assembly to the bumper and install the retaining bolts.

4. Install the license plate.

FRONT BUMPER—FAIRLANE

REMOVAL

1. Remove the bolts retaining the valence panel to the frame rail. Disconnect the parking lights and remove the valence panel.

2. Remove the bolts retaining the bumper arms to the frame side rail (Fig. 9). Then, remove the bolt retaining the outer arm to the bumper brace. Remove the bumper and arms from the vehicle.

3. Remove both bumper arms from each side of the bumper.

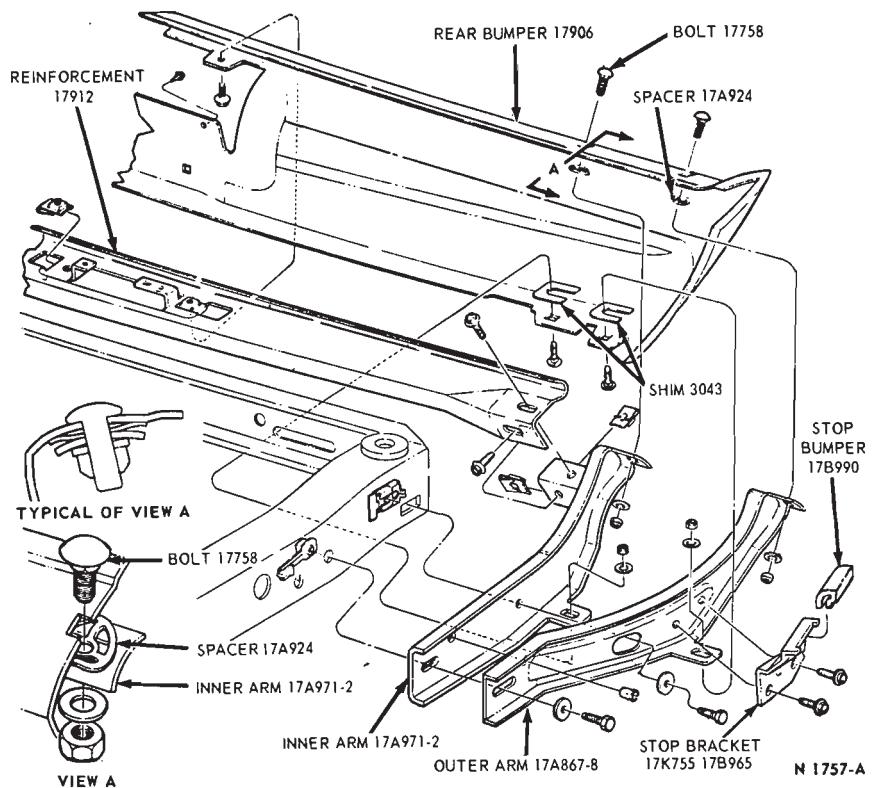


FIG. 5—Rear Bumper Installation—Ford Except Model 71

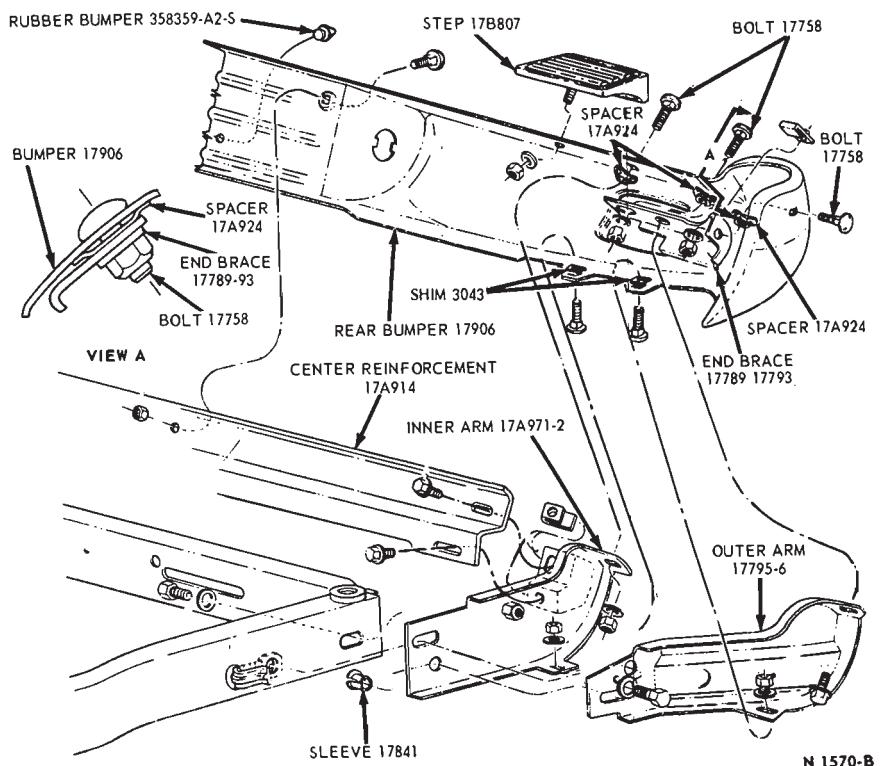


FIG. 6—Rear Bumper Installation—Ford, Mercury and Meteor Model 71

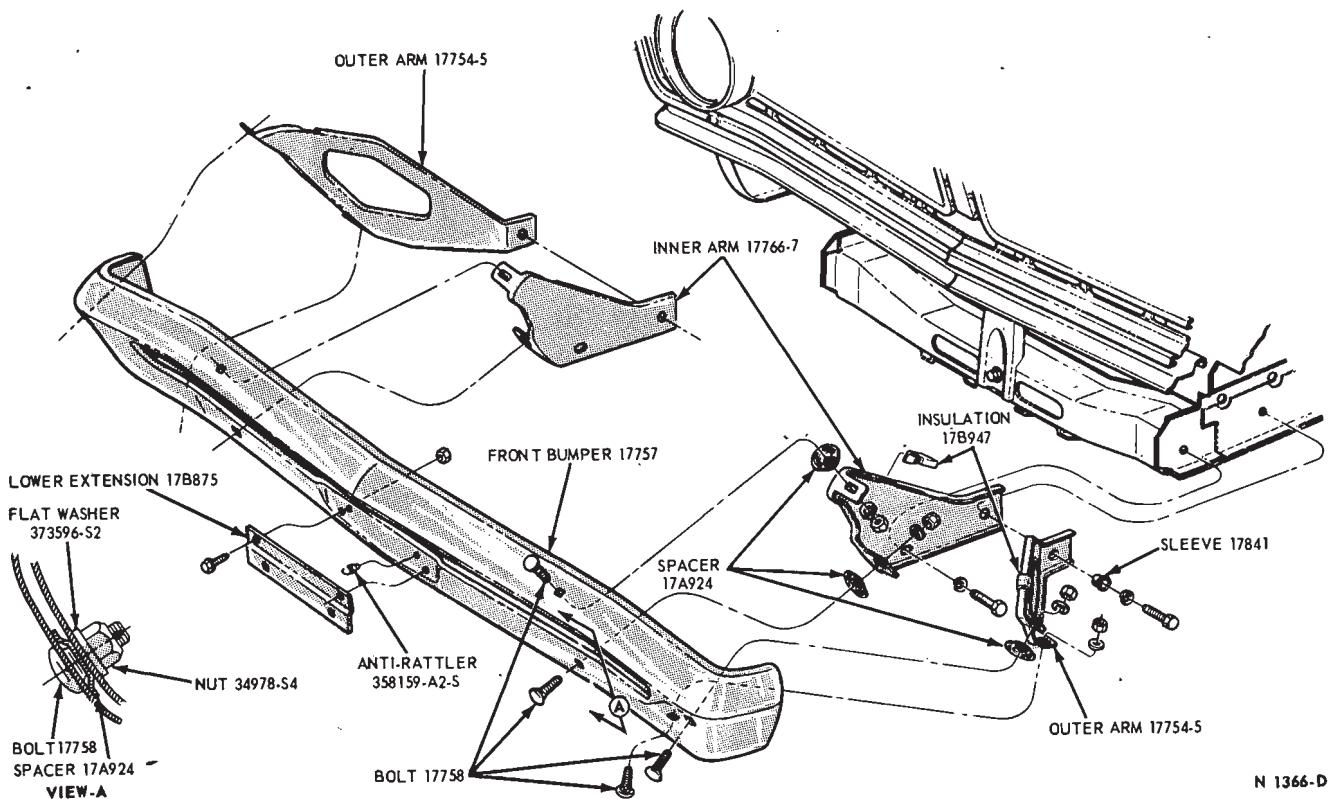


FIG. 7—Front Bumper Installation—Falcon

INSTALLATION

1. Position the inner and outer arms on the bumper and install the retaining bolt.
2. Position the bumper and arms on the vehicle and install the bumper arm-to-frame retaining bolts (1 each side). Install the bolt retaining the outer arm to the bumper brace.
3. Install the valence panel and connect the parking lights.

FRONT BUMPER—MONTEGO**REMOVAL**

1. Remove the two screws retaining the parking lights to the bumper. Allow the parking lights to hang.
2. Remove the two bolts on each side that retain the bumper arms to the frame. Remove the bumper and arms from the vehicle.
3. Remove the bumper arms and front bumper reinforcement from the bumper.
4. Remove the lower extension and license bracket (Fig. 10).

INSTALLATION

1. Install the license bracket and lower extension on the bumper.

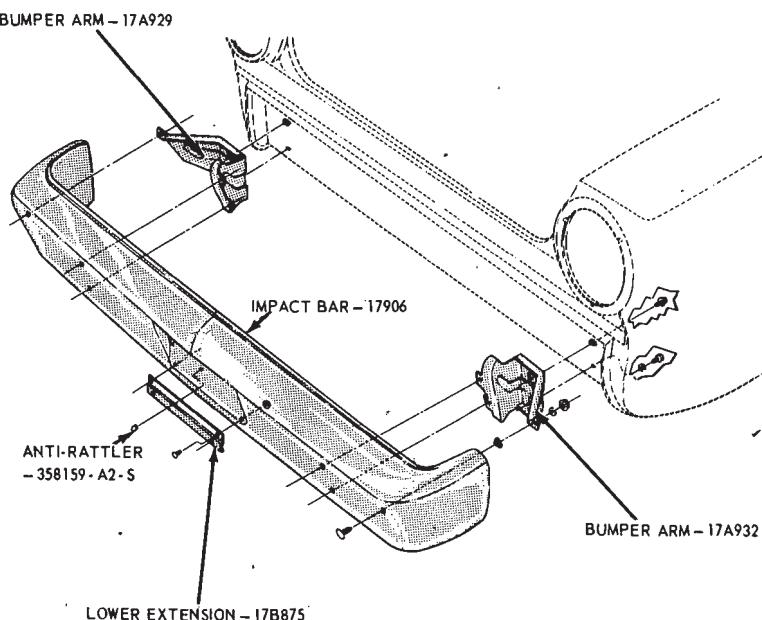


FIG. 8—Falcon Rear Bumper Installation

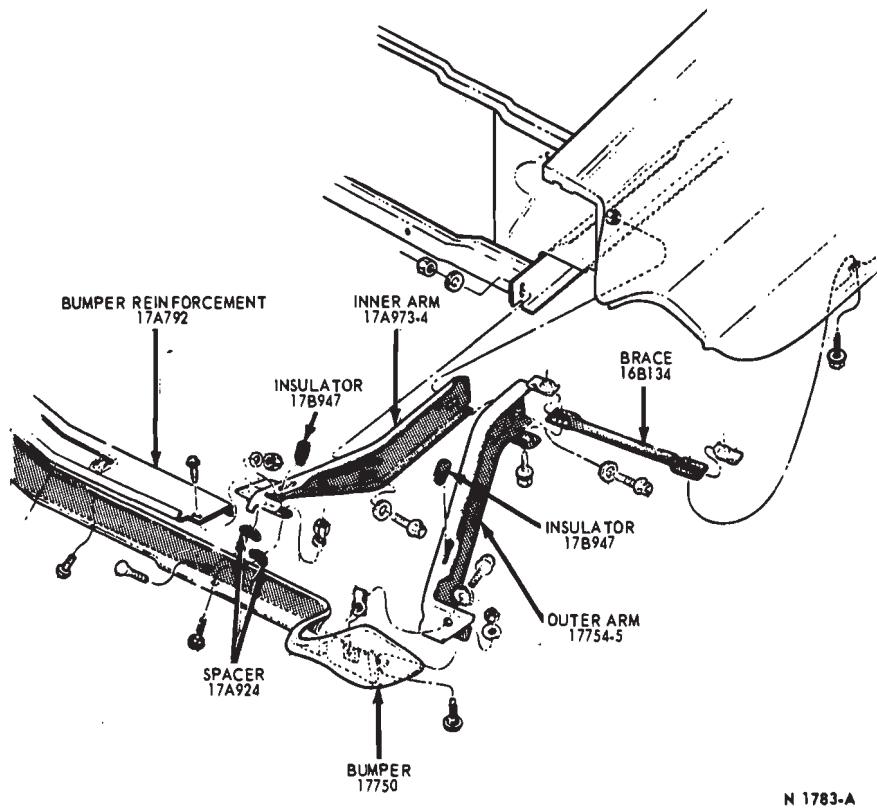


FIG. 9—Fairlane Front Bumper

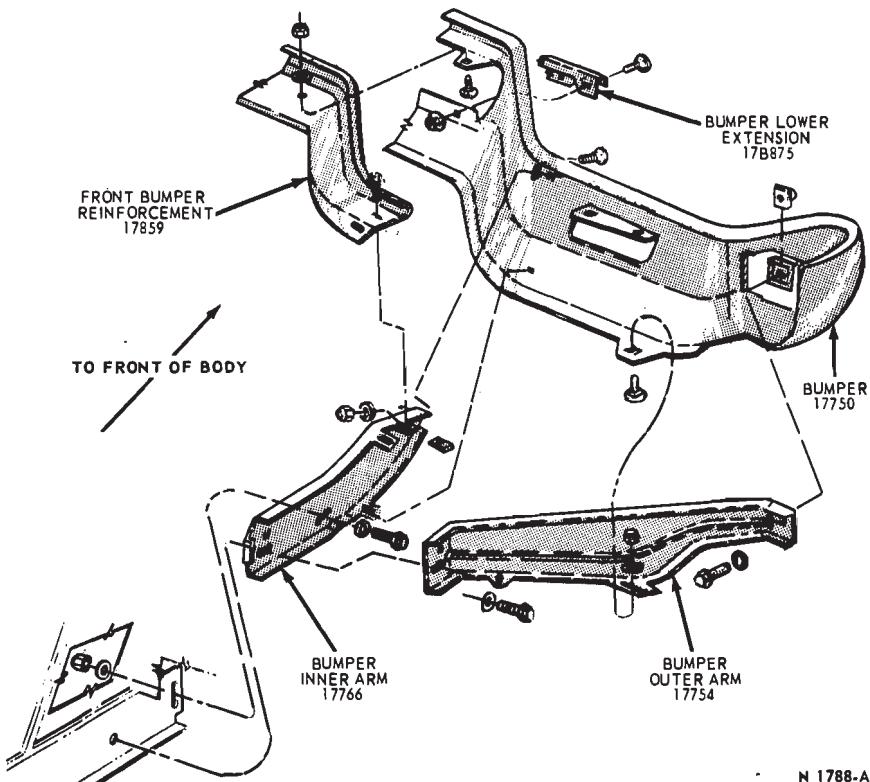


FIG. 10—Montego Front Bumper

2. Install the inner and outer arms and bumper reinforcement on the bumper.

3. Position the bumper and arms to the frame side rail and install the two retaining bolts on each side.

REAR BUMPER—FAIRLANE AND MONTEGO—EXCEPT MODEL 66 AND 71

REMOVAL

1. Open the luggage compartment and remove the bumper mounting bolts located in the compartment.

2. Remove the two screws retaining the license plate light and allow the light to hang.

3. Remove the two bolts on each side which retain the bumper arms to the body (Figs. 11 and 12). Remove the bumper to a bench.

4. Remove the inner and outer arms from the bumper.

INSTALLATION

1. Install the inner and outer arms on the bumper.

2. Position the bumper between the lower extension and the taillights and loosely install the bolts in the luggage compartment.

3. Install the four lower bolts retaining the bumper to the body, then tighten the two bolts in the luggage compartment.

4. Position the license plate light and install the two retaining screws.

REAR BUMPER—FALCON, FAIRLANE AND MONTEGO MODELS 66 AND 71

REMOVAL

1. Disconnect the license plate lights at the connectors and remove the lights from the bumper.

2. Remove the license plate from the bumper.

3. Remove four nuts and bolts attaching the bumper arms to the frame rails and remove the bumper (Fig. 13).

4. Remove the outer arms from the bumper.

5. Falcon Only: Remove four bolts and nuts and remove the inner arms from the bumper.

6. Fairlane and Montego Only: Remove two reinforcement attaching bolts and nuts and four inner arm attaching bolts and nuts to remove the reinforcement and inner arms from the bumper.

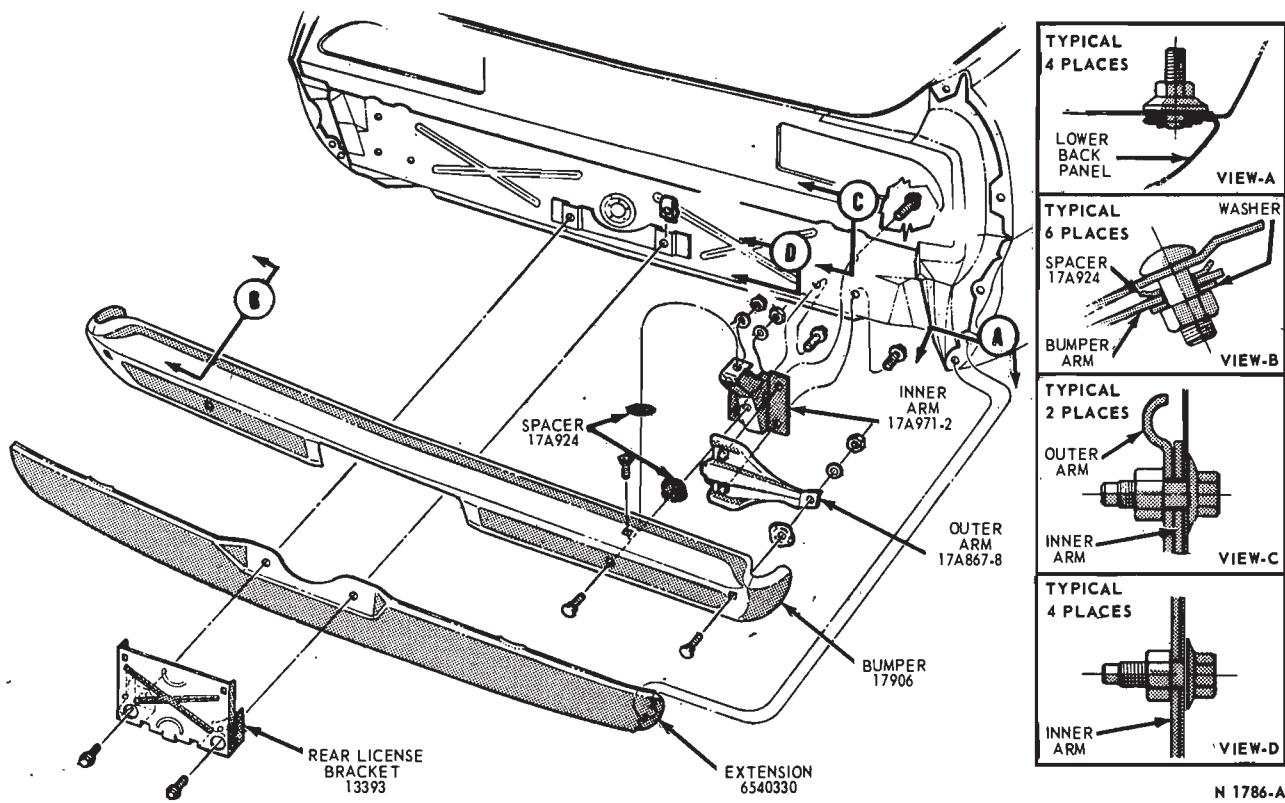


FIG. 11—Fairlane Rear Bumper Except Models 66 and 71

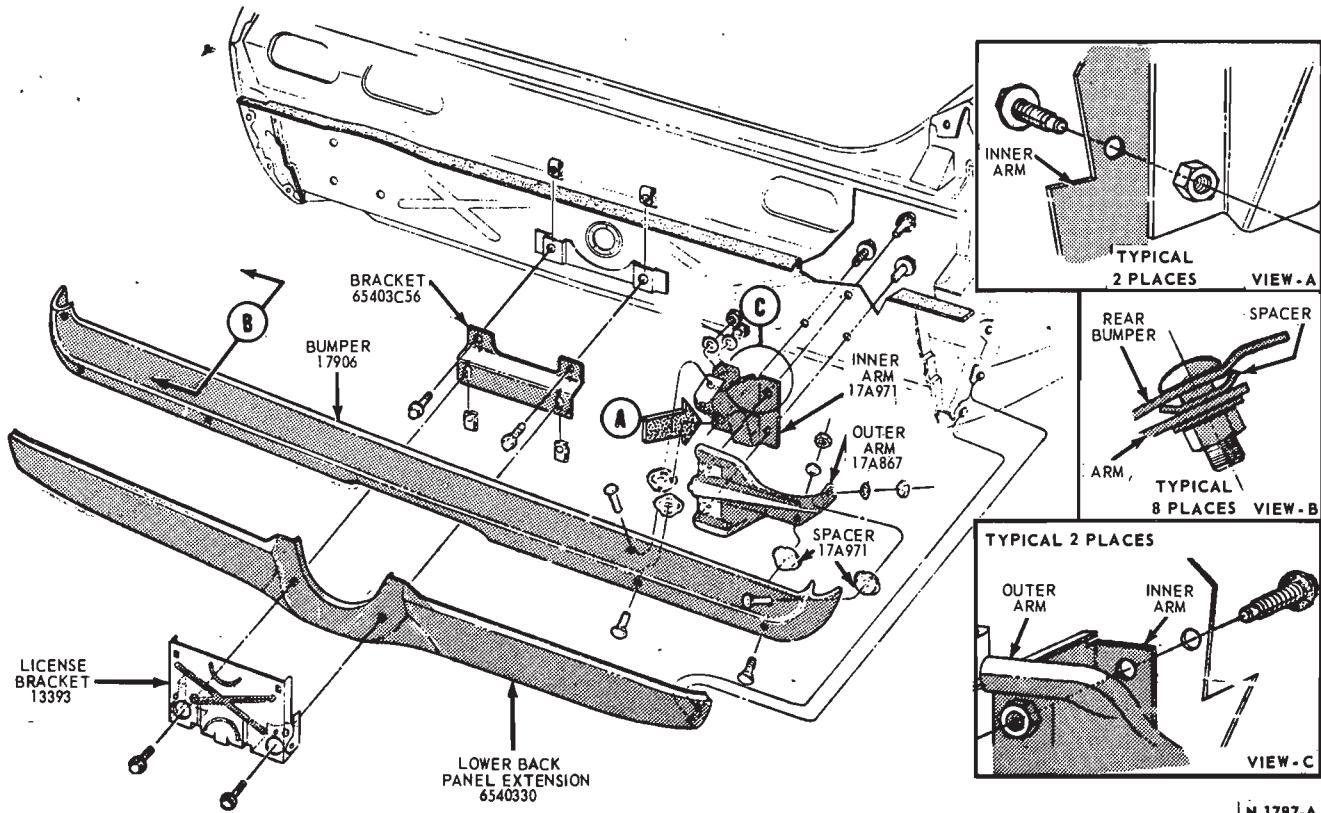


FIG. 12—Montego Rear Bumper Except Model 71

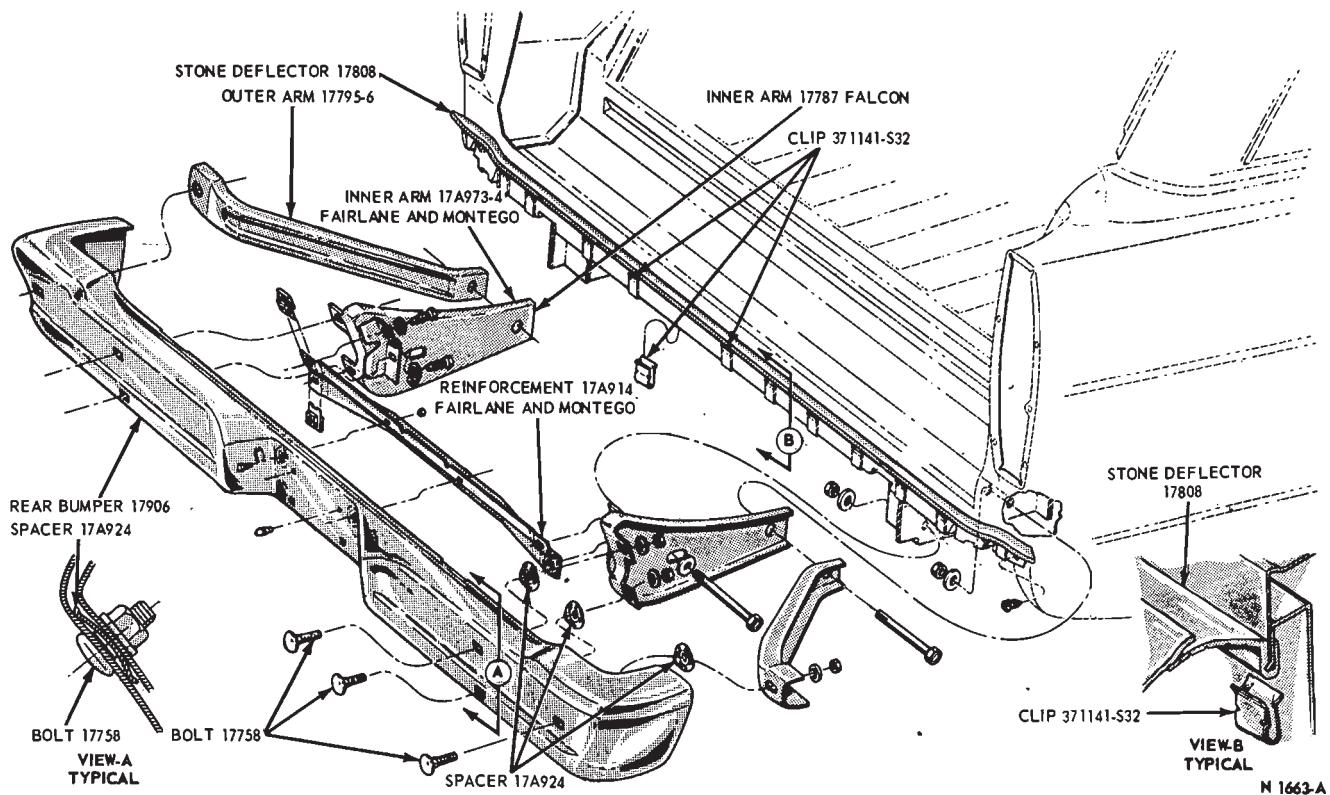


FIG. 13—Rear Bumper Installation—Models 66 and 71

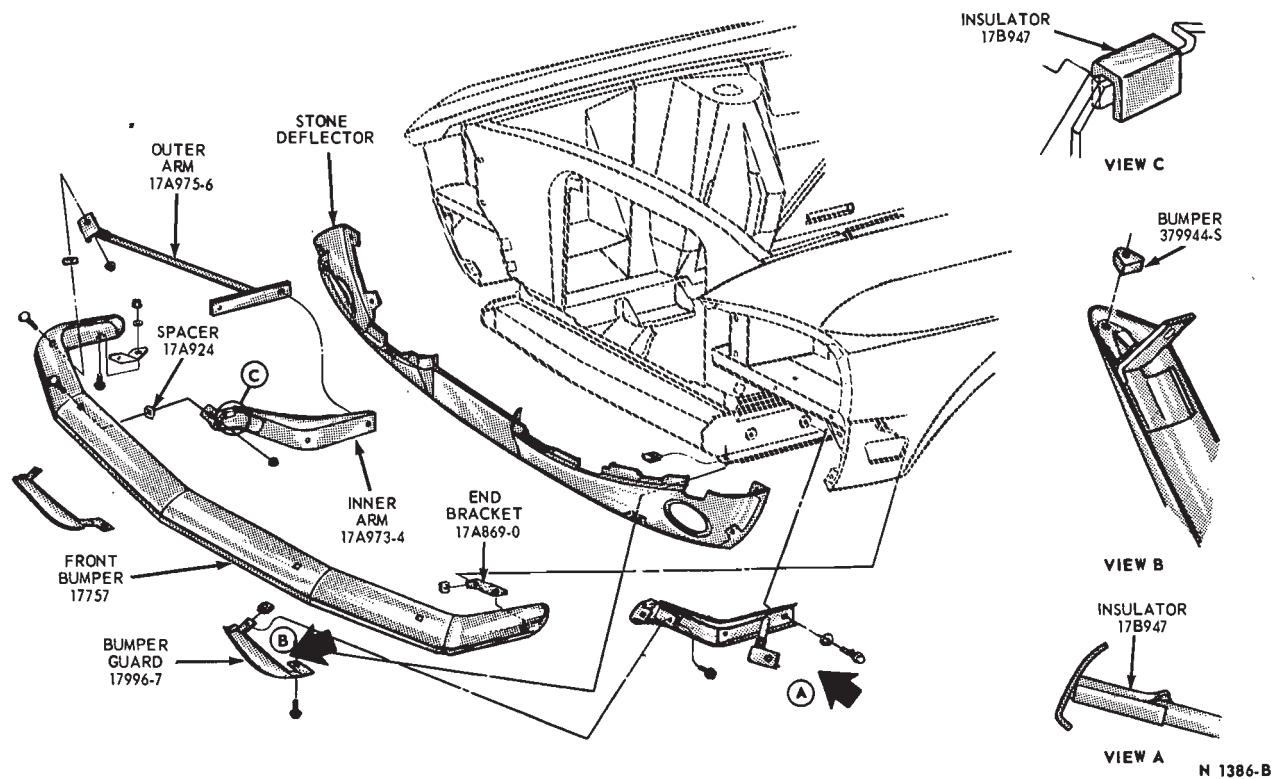


FIG. 14—Mustang Front Bumper Installation

7. Transfer the license plate retainers and rubber bumper to the new bumper.

INSTALLATION

1. Fairlane and Montego Only: Position the reinforcement and inner arms to the bumper with spacers inserted between the arms and bumper. Then, install the attaching bolts and nuts.

2. Falcon Only: Position the inner arms to the bumper. Insert spacers between the inner arms and install the four attaching bolts and nuts.

3. Position the outer arms to the bumper with a spacer between them and install the attaching bolt and nut.

4. Position the bumper to the vehicle and loosely install the four attaching bolts and nuts. Align the bumper and tighten the bolts and nuts.

5. Install the license plate.

6. Install the license plate lights and connect the wires at the connector.

FRONT BUMPER—MUSTANG

REMOVAL

1. Raise the car to provide working access.

2. Remove the parking lights from the bumper.

3. Tape the stone deflector to prevent scratching the paint finish.

4. Remove the left and right end bracket bolts from the fenders.

5. Remove the bumper bar-to-inner arm and the bumper bar-to-outer arm retaining bolts from each side of the bumper (Fig. 14). Remove the bumper and end brackets as an assembly.

INSTALLATION

1. Transfer the end brackets to the new bumper.

2. Position the bumper on the car. Install the bumper bar-to-inner arm and the bumper bar-to-outer arm retaining bolts.

3. Install the end bracket retaining bolts.

4. Install the parking lights.

5. Remove the protective tape from the stone deflector and lower the car.

FRONT BUMPER GUARD—MUSTANG

1. Remove the screw and washer retaining the bumper guard to the

frame lower side rail (Fig. 14).

2. Remove the screw and washer retaining the bumper guard to the inner arm (Fig. 14) and remove the guard assembly.

3. Transfer the nut and retainer assembly and the rubber spacer to the new bumper guard (Fig. 14, View B).

4. Position the bumper guard assembly to the bumper.

5. Install the two retaining screws.

REAR BUMPER—MUSTANG AND MAVERICK

REMOVAL

1. Open the luggage compartment. Remove the spare wheel and disconnect the license wiring connector.

2. Remove the four bumper mounting bracket-to-body retaining bolts and remove the bumper assembly (Fig. 15).

3. Remove the four bumper-to-mounting bracket retaining bolts and remove the brackets (Fig. 15).

4. Remove the two license plate light and bracket retaining screws and remove the light and bracket.

INSTALLATION

1. Position the license plate light and bracket on the bumper and install the two retaining screws.

2. Position the bumper mounting brackets on the bumper and install the bumper-to-mounting bracket retaining bolts.

3. Position the bumper assembly to the vehicle. Start one bumper bracket to body attaching bolt on each side. Then, adjust the bumper for proper alignment and install the remaining bumper bracket attaching bolts.

4. Connect the license light wiring and install the spare wheel.

REAR BUMPER GUARD—MUSTANG

REMOVAL

1. Open the luggage compartment door and remove the rear lining boards from the back panel.

2. Disconnect the license light wire and pull the wire through the grommet.

3. Remove four bolts attaching the bumper and mounting brackets to the back panel and remove the bumper (Fig. 17).

4. Remove two bolts and nuts attaching each mounting bracket to the bumper and remove the brackets from the bumper.

5. Remove the anti-squeak pads from each end of the bumper.

INSTALLATION

1. Transfer the two nuts and retainers to the new bumper guard.

2. Position the bumper guard on the car and install the two retaining screws.

3. Install the spare tire assembly.

FRONT BUMPER—COUGAR

REMOVAL

1. Remove the bolts retaining the valence panel. Disconnect the parking lights and remove the valence panel.

2. Remove the two bolts from each side which retain the bumper arms to the frame side rail (Fig. 16). Remove the bumper and arms from the vehicle.

3. Remove the eight bolts (4 each side) which retain the inner and outer bumper arms to the bumper.

INSTALLATION

1. Position the inner and outer arms on the bumper and install the retaining bolts.

2. Position the bumper and arms to the vehicle and install the bolts retaining the arms to the frame side rail.

3. Install the valence panel and connect the parking lights.

REAR BUMPER—COUGAR

REMOVAL

1. Open the luggage compartment door and remove the rear lining boards from the back panel.

2. Disconnect the license light wire and pull the wire through the grommet.

3. Remove four bolts attaching the bumper and mounting brackets to the back panel and remove the bumper (Fig. 17).

4. Remove two bolts and nuts attaching each mounting bracket to the bumper and remove the brackets from the bumper.

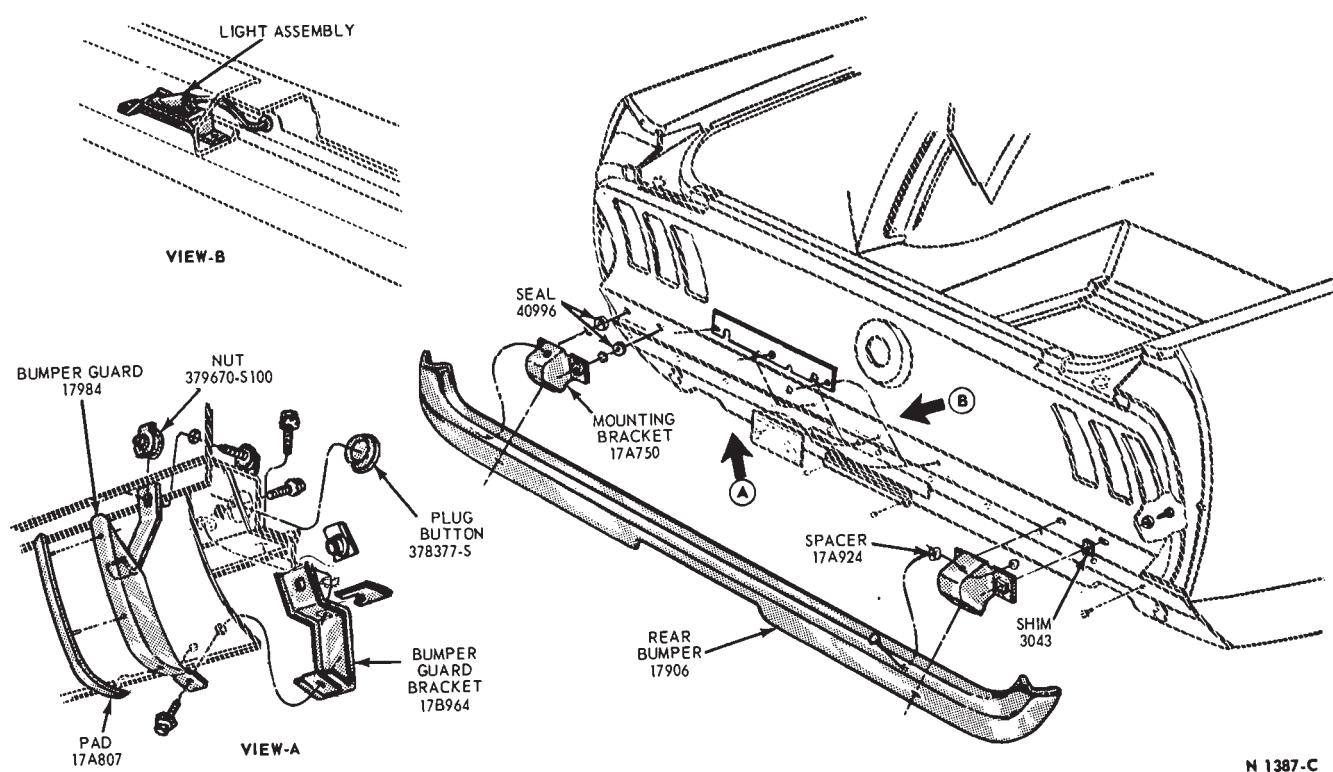
5. Remove the anti-squeak pads from each end of the bumper.

INSTALLATION

1. Install the anti-squeak pads on the bumper.

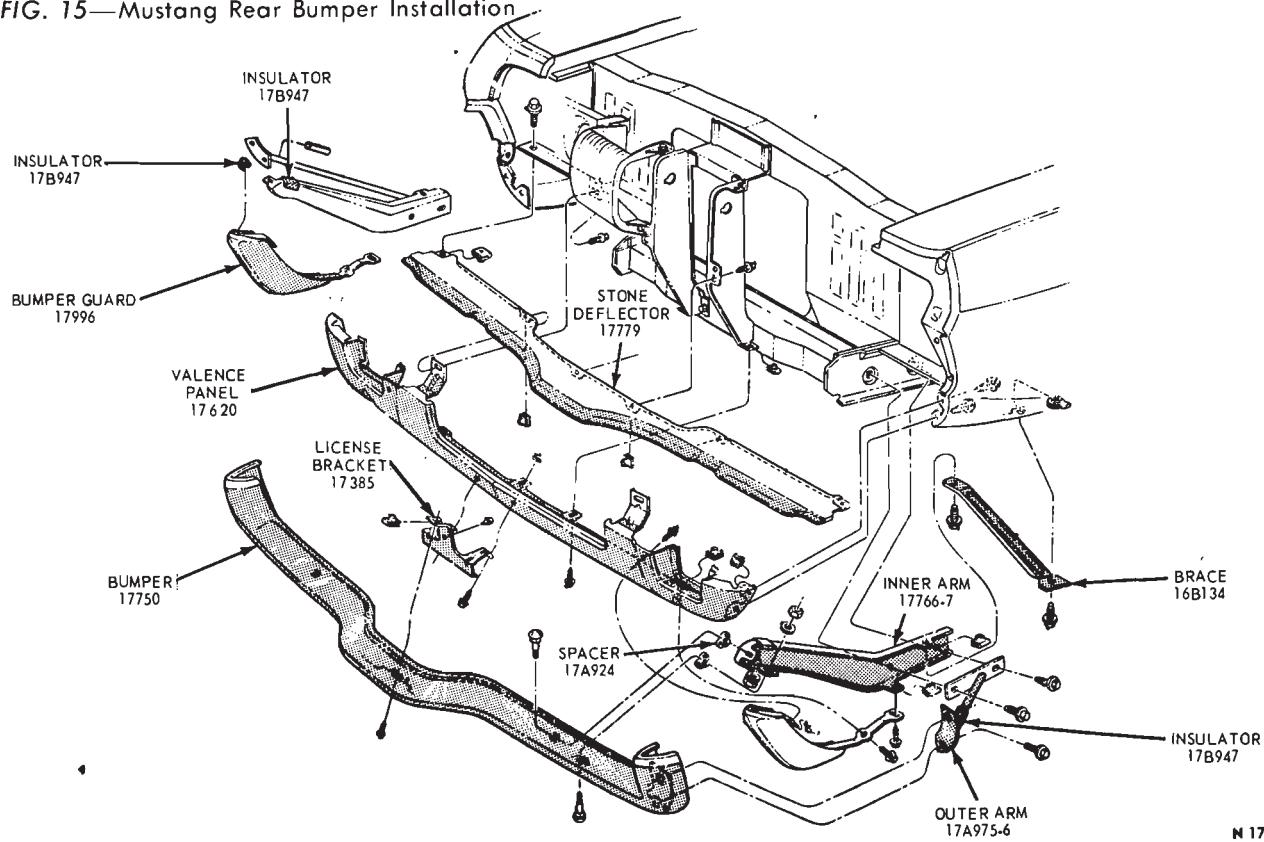
2. Position the mounting brackets to the bumper and install the attaching bolts and nuts (Fig. 17).

3. Position the bumper and mount-



N 1387-C

FIG. 15—Mustang Rear Bumper Installation



N 1798-A

FIG. 16—Cougar Front Bumper

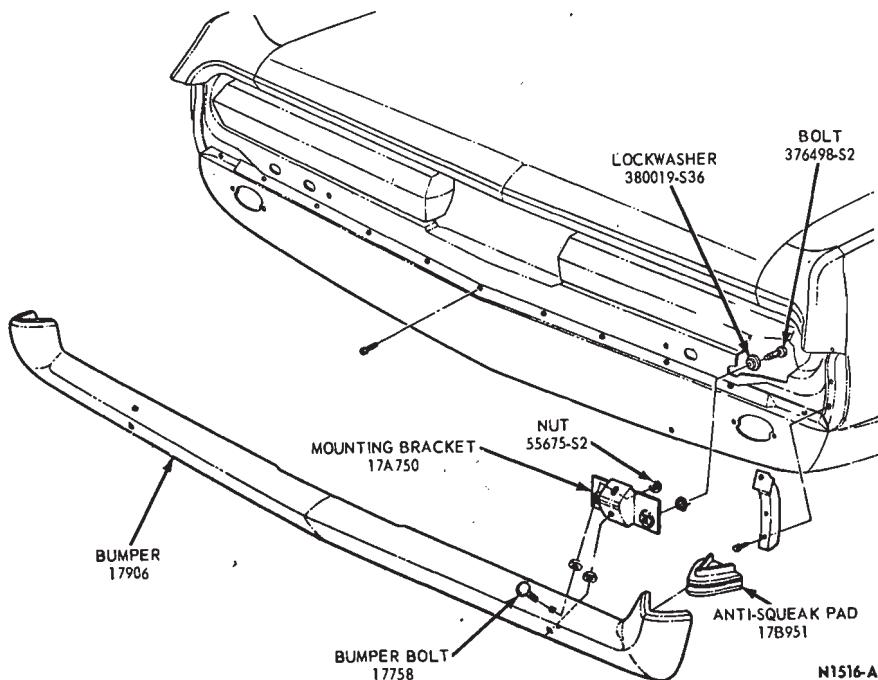


FIG. 17—Cougar Rear Bumper Installation

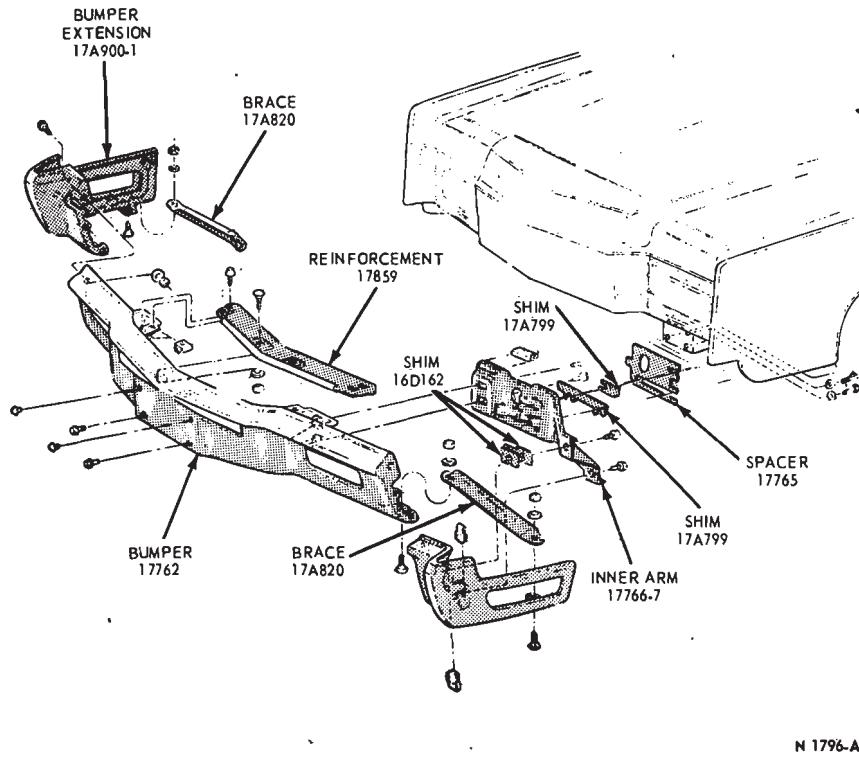


FIG. 18—Lincoln Continental Front Bumper

ing brackets to the back panel. Insert the license light wire through the grommet. Then, install the bumper and mounting bracket attaching bolts and lock washers. Adjust the bumper and tighten the attaching bolts.

4. Connect the license light wire at the connector.

5. Position the rear lining boards to the back panel and install the attaching screws.

FRONT BUMPER—LINCOLN CONTINENTAL

REMOVAL

1. Remove the two parking light retaining screws and allow the lights to hang. Also, remove the side marker lights.

2. Remove the three bolts retaining each bumper arm to the frame rail end. Remove the spacers, shims and bumper assembly from the vehicle.

3. Remove the bolts retaining the bumper extensions to the bumper arms. Remove the bolts retaining the bumper extensions to the bumper braces and bumper (Fig. 18), and remove the extensions.

4. Remove the bolts retaining the bumper arms to the bumper and remove the arms.

5. Remove the bolts retaining the bumper reinforcement to the bumper and remove the reinforcement.

INSTALLATION

1. Install the bumper reinforcement on the bumper.

2. Install the bumper arms on the bumper.

3. Position the bumper extensions to the bumper and install the retaining bolts. Then, install the bumper-to-bumper extension brace. Install the two shims and bolts attaching the bumper arms to the bumper extension.

4. Push the bolts through the frame rail end and install the spacer (open end of notches facing outward) and shims on the bolts. Position the bumper arms against the frame rail and tighten the bolts.

REAR BUMPER—LINCOLN CONTINENTAL

REMOVAL

1. Remove the trim from the rear panel.

2. Disconnect the multiple connectors for the taillight and license light. Push the grommets through the rear panel.

3. Remove the muffler bracket from the bumper arms.

4. Position a floor jack to the bumper.

5. Remove the bolts retaining the bumper arms to the frame side rails (Fig. 19). With an assistant, remove the bumper from the vehicle.

6. Disconnect the side marker lights from the taillight wiring harness

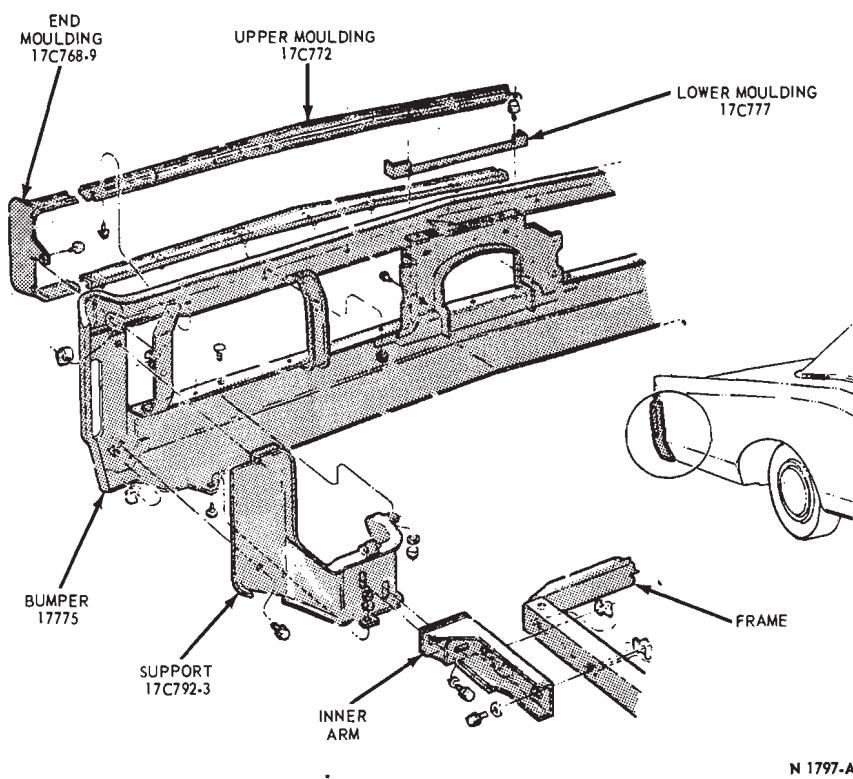


FIG. 19—Lincoln Continental Rear Bumper

and remove both taillight assemblies.

7. Remove the bumper arms from the bumper.

8. Remove the side marker light assemblies and the license light from the bumper.

9. Remove the upper, lower and end mouldings from the bumper.

10. Remove the license plate bracket.

INSTALLATION

1. Install the upper, lower and end mouldings on the bumper.

2. Install the side marker lights and license light.

3. Install the license plate bracket.

4. Install the bumper arms on the bumper.

5. Install both taillight assemblies and connect the side marker lights to the wiring harness.

6. Place the bumper assembly on a floor jack and jack the bumper into position on the vehicle.

7. Install the bolts retaining the bumper arm to the frame rails.

8. Route the taillight wiring through the rear panel and install the grommets. Connect the multiple connectors.

9. Install the muffler bracket on the bumper arms.

10. Install the trim on the rear panel.

FRONT BUMPER—CONTINENTAL MARK III

REMOVAL

1. Remove six bolts attaching the bumper arms to the vehicle frame, and remove the bumper and arms from the vehicle.

2. Remove the center reinforcement from the inner arms and bumper (Fig. 20).

3. Remove the left and right outer bumpers and outer arms from the bumper (Fig. 20).

4. Remove the inner arms from the bumper.

5. Remove the upper center bumper from the lower center bumper (Fig. 20).

6. Remove the license plate and lower extension from the lower center bumper.

7. Remove the nut and retainers from the bumper components and install them on any new components.

INSTALLATION

1. Install the lower extension and license plate on the lower center bumper.

2. Install the upper center bumper on the lower center bumper.

3. Install the inner arms, outer bumpers, and outer arms on the bumper.

4. Install the center reinforcement on the bumper.

5. Position the bumper assembly to the vehicle frame and install the six attaching bolts.

6. Adjust the bumper for a good appearance, and tighten the bumper arm attaching bolts.

REAR BUMPER—CONTINENTAL MARK III

REMOVAL

1. Disconnect the back-up light and license light wires at the connectors.

2. Remove the bumper arm to frame attaching bolts (Fig. 21) and remove the bumper and arms from the vehicle.

3. Remove the back-up light and license light from the bumper.

4. Remove the center reinforcement, bumper arms, and outer bumpers from the center bumper (Fig. 21).

INSTALLATION

1. If the bumper is to be replaced, transfer the nut and retainers to the new bumper.

2. Install the inner arms and center reinforcement on the bumper (Fig. 21).

3. Install the outer arms and outer bumpers on the bumper (Fig. 21).

4. Install the back-up lights and license light on the bumper.

5. Position the bumper to the vehicle and install the attaching bolts snug.

6. Connect the back-up and license light wires at the connectors.

7. Position the bumper for a good appearance fit and tighten the attaching bolts.

FRONT BUMPER—THUNDERBIRD

REMOVAL

1. If the vehicle is equipped with bumper mounted parking lights, remove the two retaining screws and allow the lights to hang.

2. Remove the bolts which attach the bumper arms to the frame side

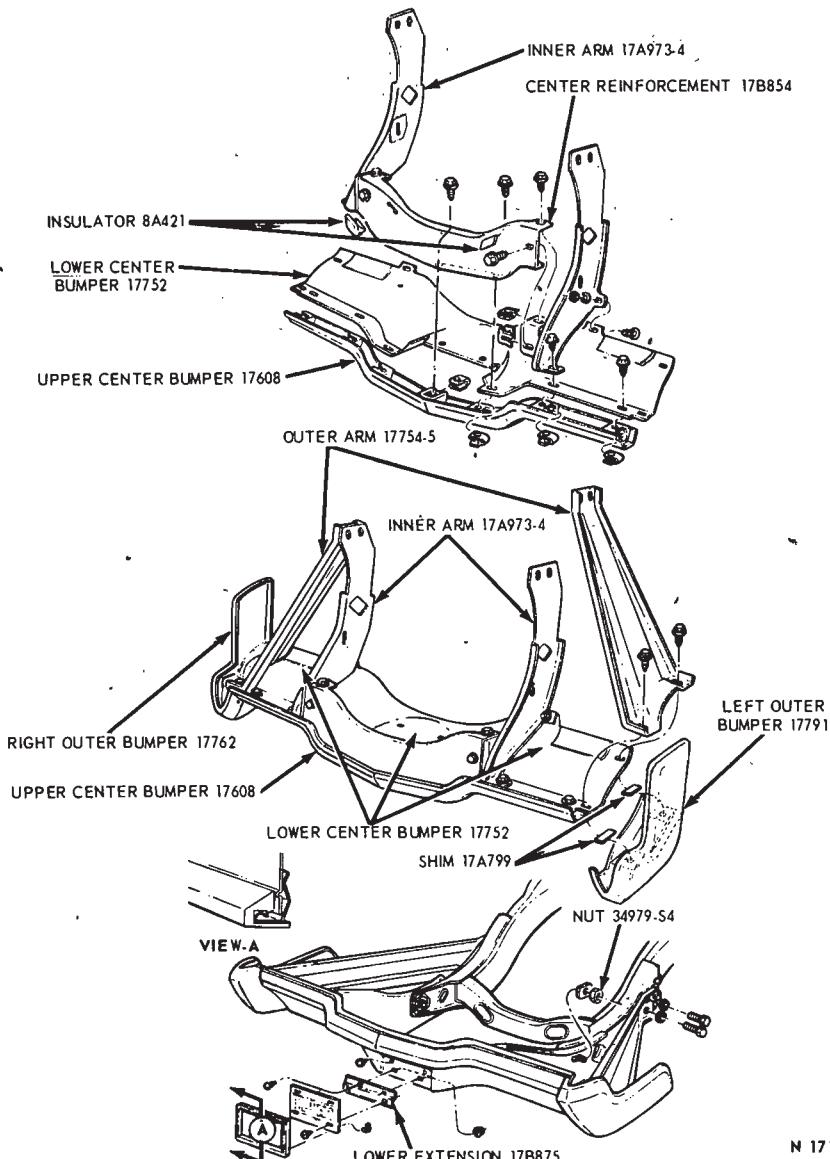


FIG. 20—Front Bumper Installation

rails and remove the bumper and valence panel as an assembly.

3. Remove the bolts which attach the bumper to the bumper support

(Fig. 22).

4. Remove the bolts which attach the bumper to the valence panel and reinforcement and remove the bumper.

INSTALLATION

1. Position the bumper to the bumper support and install the attaching bolts.

2. Install the bumper-to-valence panel and bumper reinforcement attaching bolts.

3. Position the bumper and valence panel assembly to the frame side rails and install the attaching bolts.

REAR BUMPER—THUNDERBIRD

REMOVAL

1. Raise the rear of the vehicle.

2. Remove one bolt attaching each outer arm (Fig. 23) to the bumper.

3. Remove two bolts attaching each inner arm to the bumper.

4. Remove two bolts attaching the bumper to the center reinforcement and remove the bumper from the vehicle.

5. Remove six nuts and retainers from the bumper.

INSTALLATION

1. Install six nuts and retainers on the bumper and position the bumper to the vehicle.

2. Install the two center reinforcement to bumper attaching bolts.

3. Install three arm to bumper attaching bolts at each end of the bumper. Then, tighten the eight bumper attaching bolts and lower the vehicle.

FRONT BUMPER—MAVERICK

The front bumper is shown in Fig. 24. Remove the bumper and arms from the body structure. Then, remove the bumper from the attaching parts.

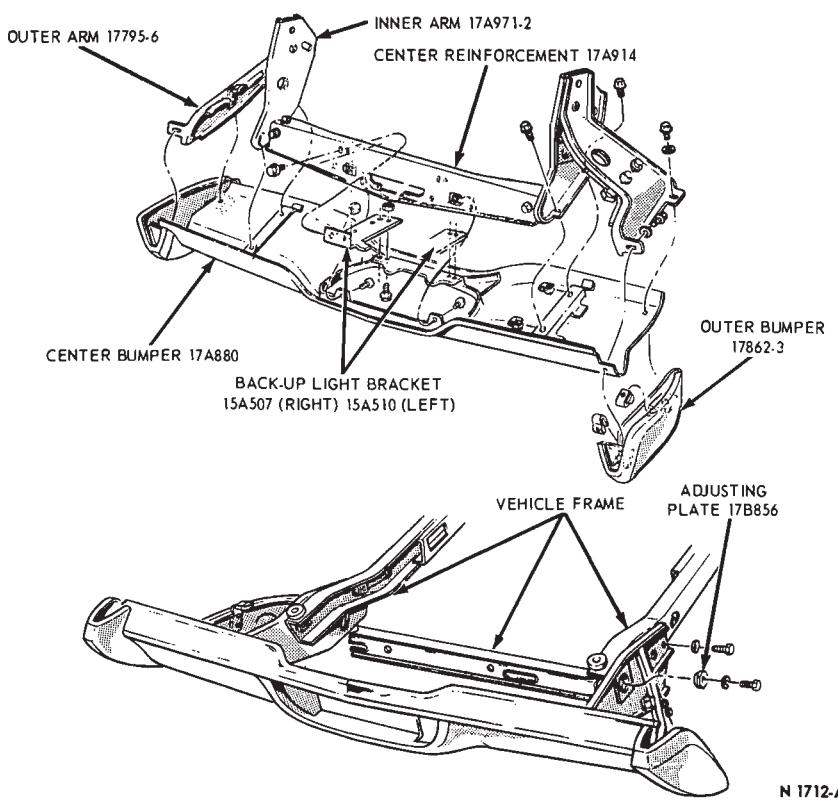


FIG. 21—Rear Bumper Installation

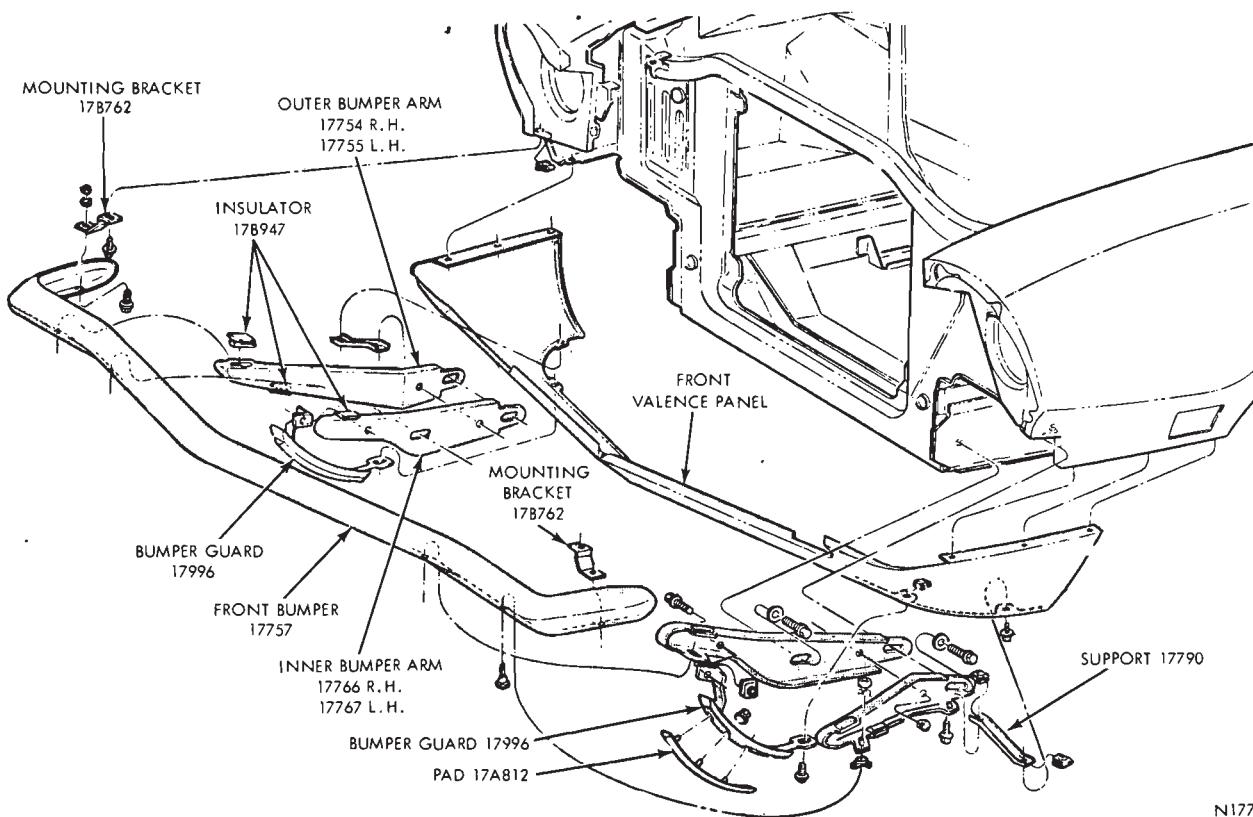


FIG. 24—Front Bumper—Maverick

See next page for Figs. 22 & 23

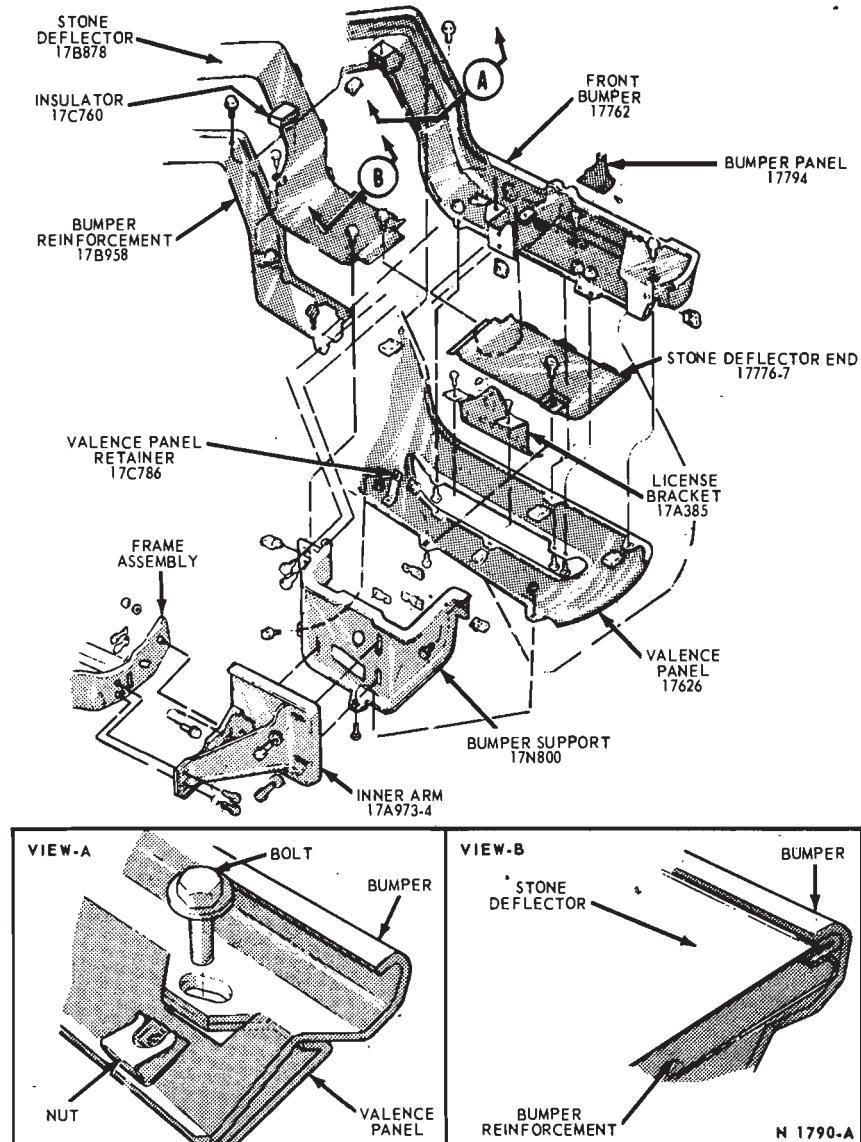


FIG. 22—Thunderbird Front Bumper

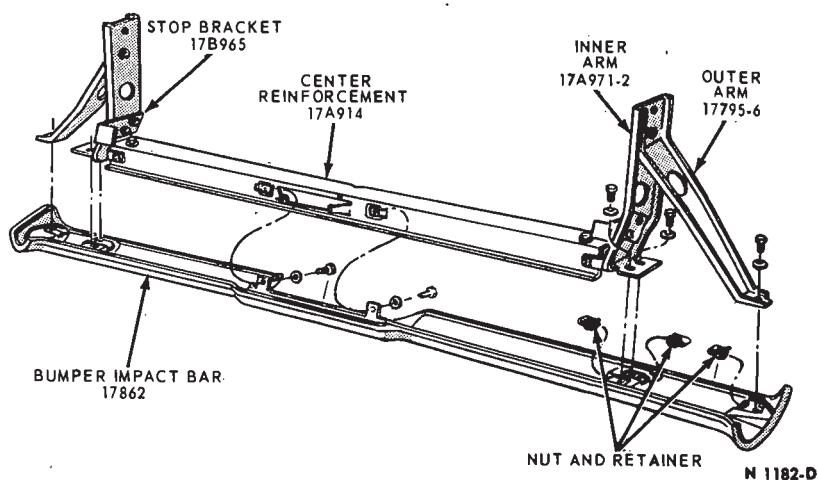


FIG. 23—Rear Bumper—Thunderbird

PART 48-04 Exterior Trim and Body Sealer

COMPONENT INDEX Applies To All Models	All Models	COMPONENT INDEX Applies to All Models	All Models
BODY SEALER Type and Application	04-01	EXTERIOR TRIM	04-01
A page number indicates that the item is for the vehicle(s) listed at the head of the column.			

1 EXTERIOR MOULDINGS

Before removing the exterior mouldings, it should be determined by the type of retainer used whether a

respective door, quarter or luggage compartment trim panel must first be removed to provide access (Figs. 1

through 38). If a weld stud is distorted or broken off, it should be replaced with a screw (379560-S101).

2 BODY SEALER

TYPES OF SEALER AND APPLICATION

The all-purpose sealers described below have been selected for service use. The method and points of application (Figs. 39 through 61) are given under each sealer

CAULKING CORD AB19560-A

This sealer has a plastic base with an asbestos filler, is heavy bodied, and is commonly known as permagum. It is used on spotweld holes, around moulding clips, or between two surfaces not properly sealed by a gasket. Apply the sealer with a putty knife.

TRIM CEMENT C2AZ-19C525-A

This cement is recommended for instrument panel safety cover and body panel plastic water shield installation. It is also useful for repair or replacement of other vinyl and rubber trim.

RUBBER CEMENT 8A-19552-B

This quick-drying, strong adhesive material is designed to hold weatherstripping on doors, bodies, deck lids, cowl ventilators, and the surrounding metal. Windows and windshields which are set in rubber can be effectively sealed against leakage by flowing cement into the affected areas.

Clean all grease, dirt, and old sealer from the surfaces to be cemented. For best results, apply a medium coat

of cement to both surfaces, allow it to dry until tacky, and press both surfaces firmly together.

SILICON LUBRICANT COAZ-19553-A (JELLY) AND COAZ-19553-C (SPRAY)

This lubricant is to be used on the door window weatherstrips. It is recommended that silicone lubricant be applied to the upper weatherstrips at every regulator lubrication period. Its use makes the doors easier to close, avoids weatherstrip squeaks, retards excess weatherstrip wear from chafing between the door glass upper frame and the weatherstrip, and helps to retain door window alignment by reducing friction between the glass frame and rubber weatherstrip.

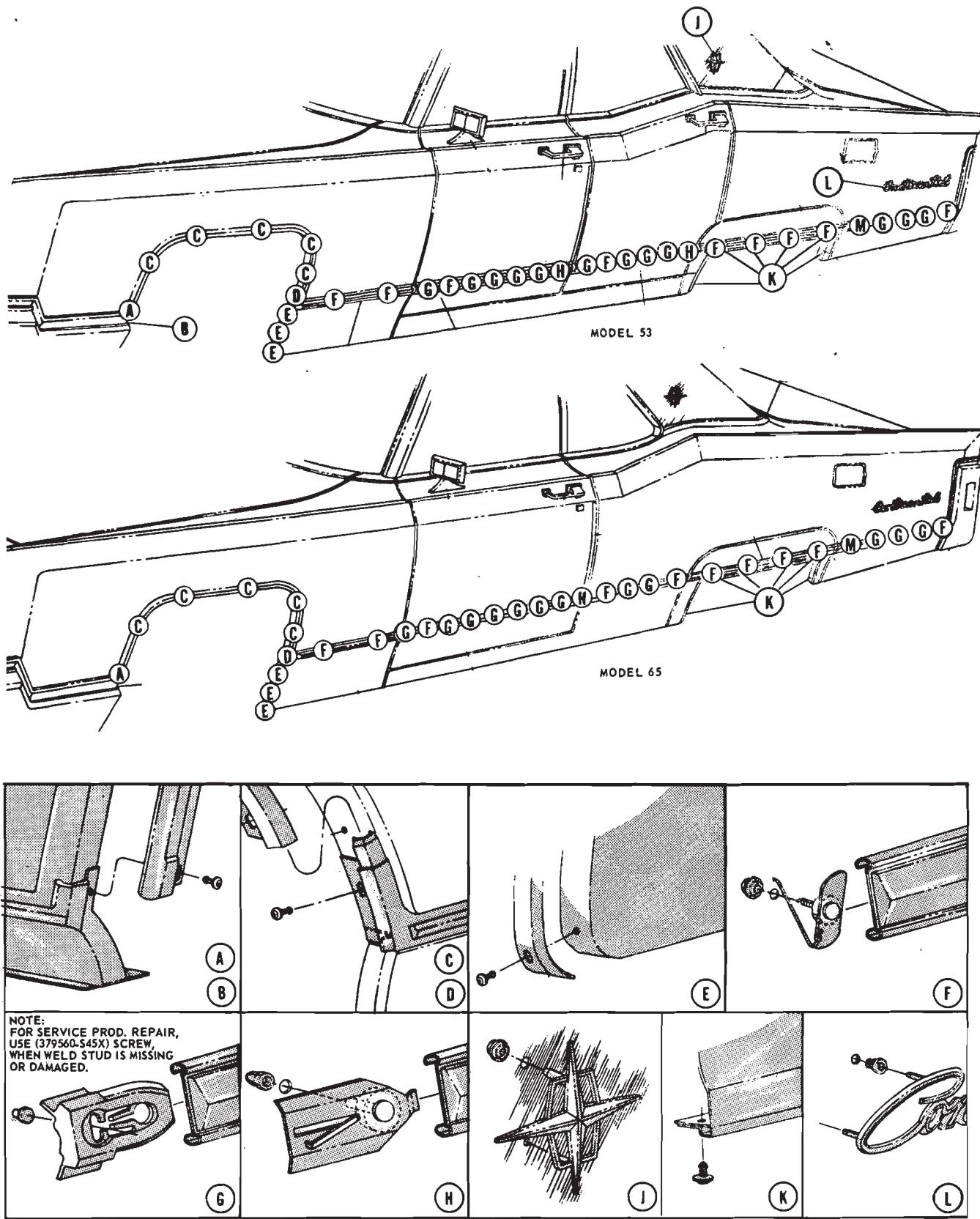


FIG. 1—Lincoln Continental Exterior Side Moulding Installation

N 1213-G

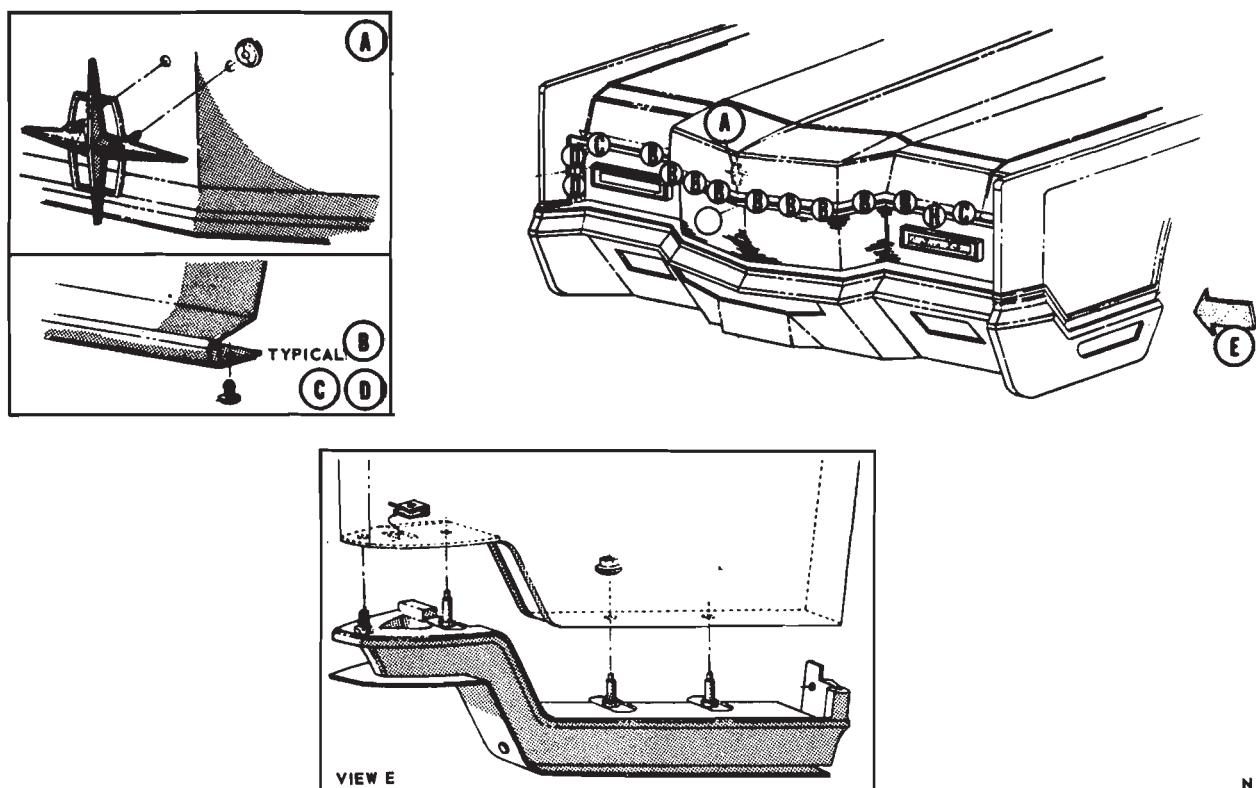


FIG. 2—Lincoln Continental Exterior Front Moulding Installation

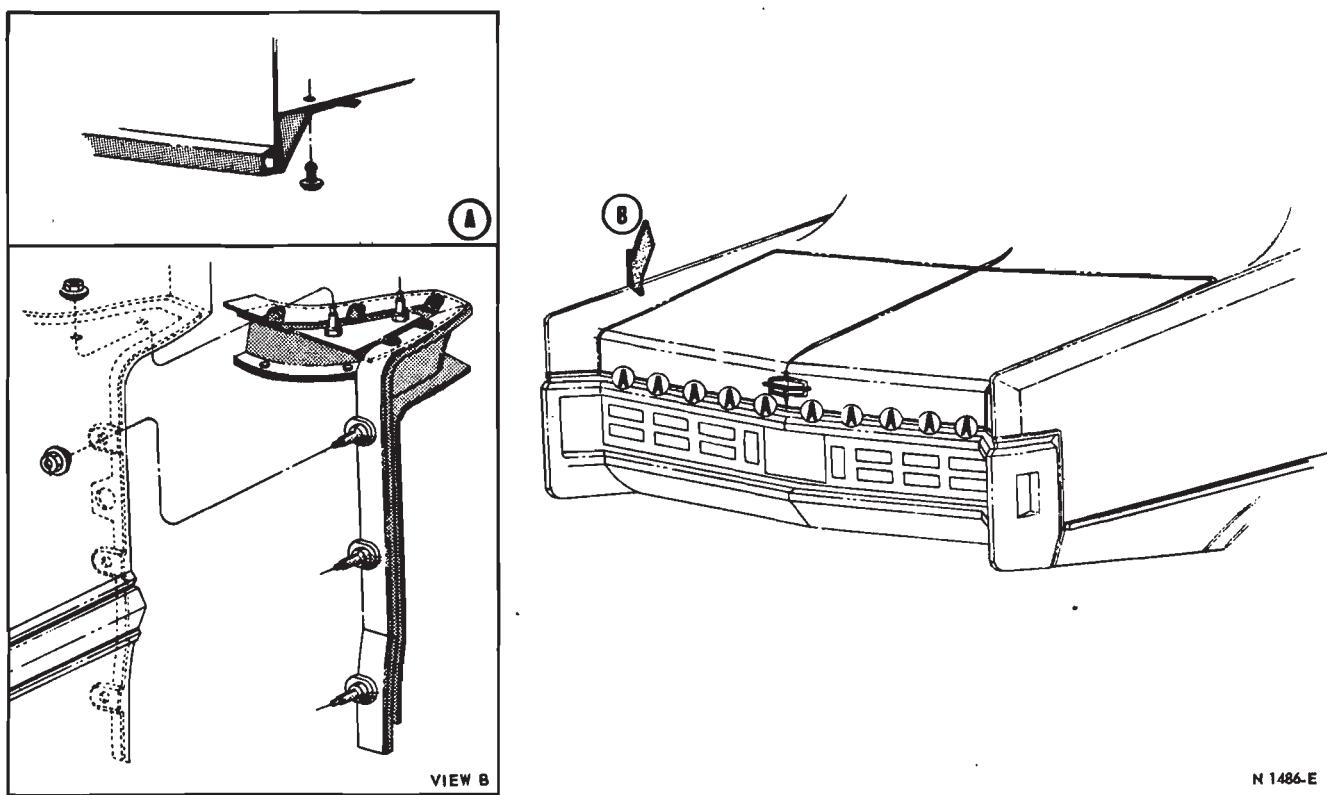
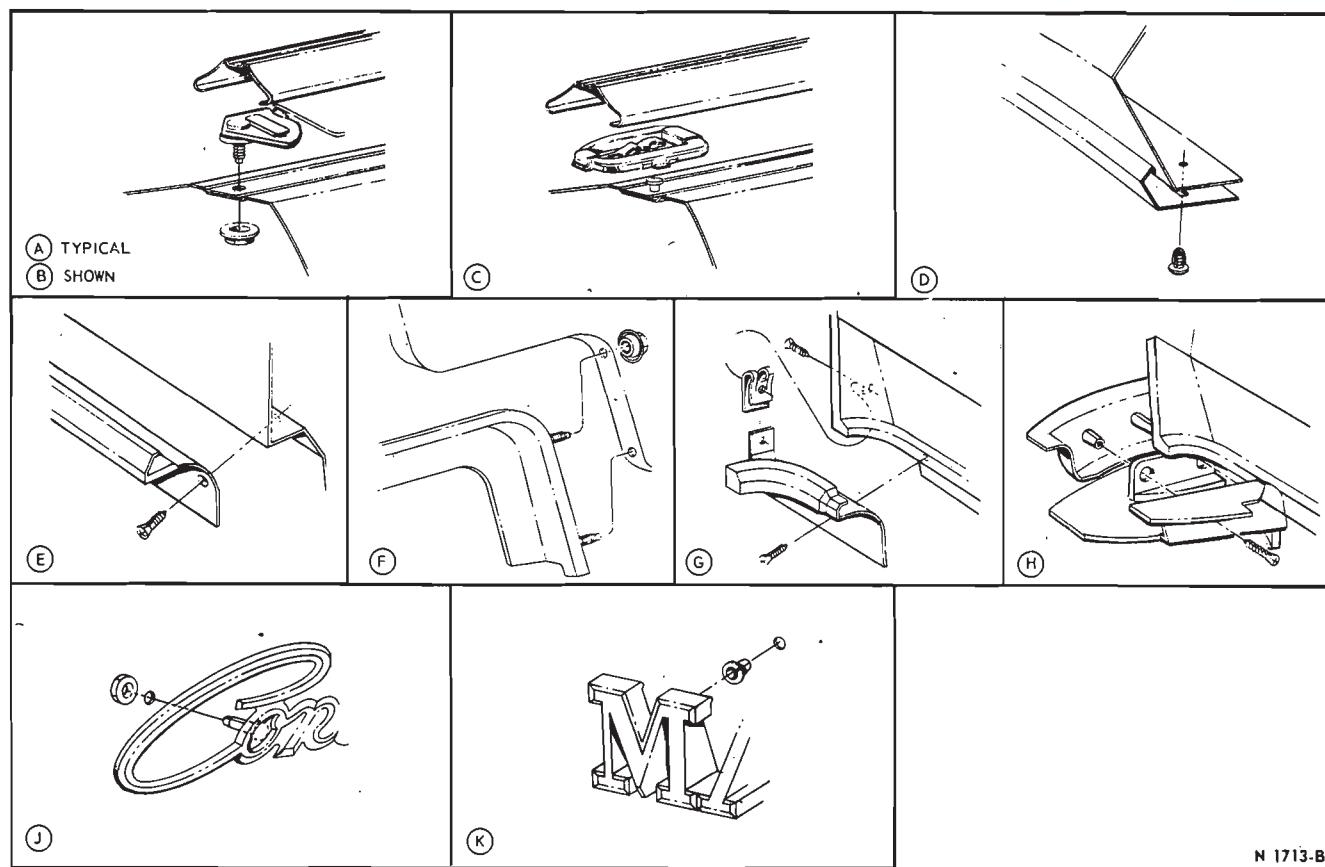
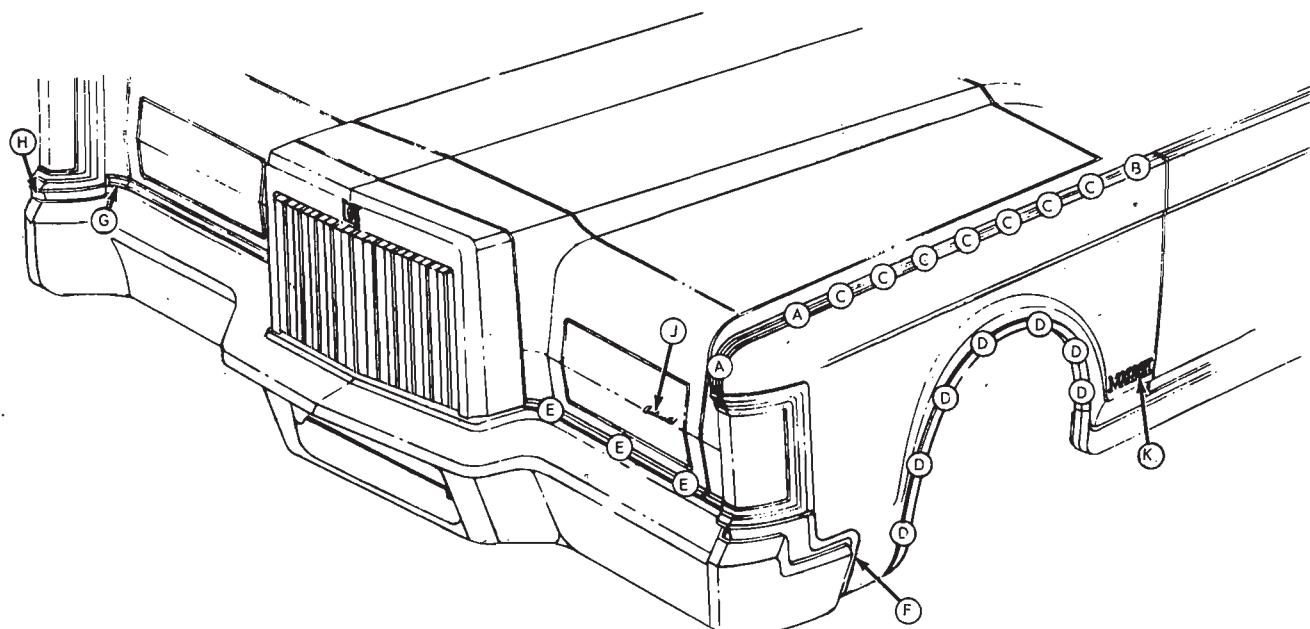


FIG. 3—Lincoln Continental Exterior Rear Moulding Installation



N 1713-B

FIG. 4—Continental Mark III Exterior Front Moulding Installation

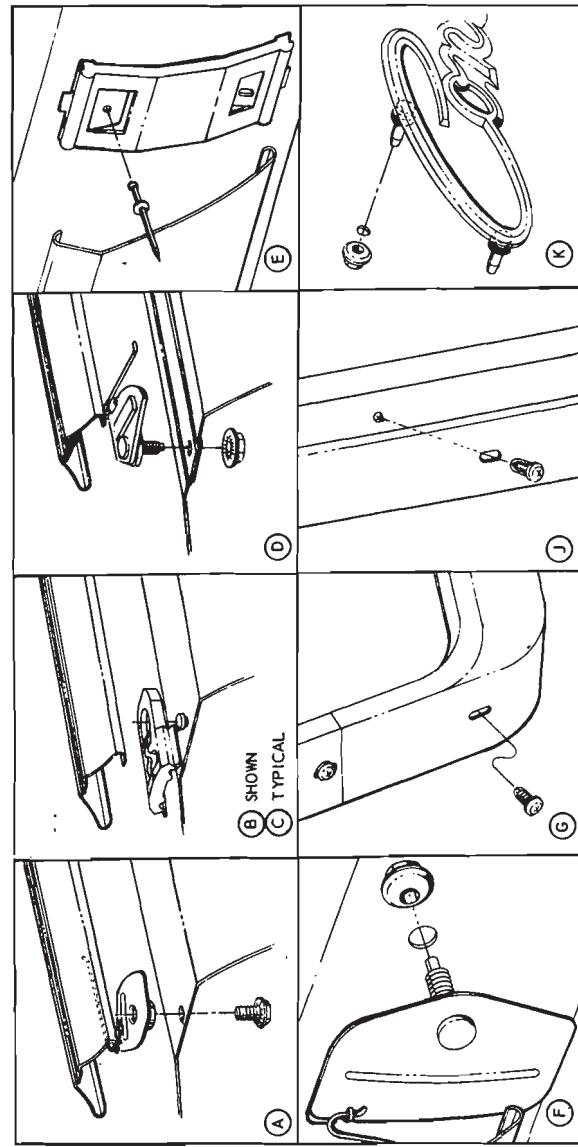
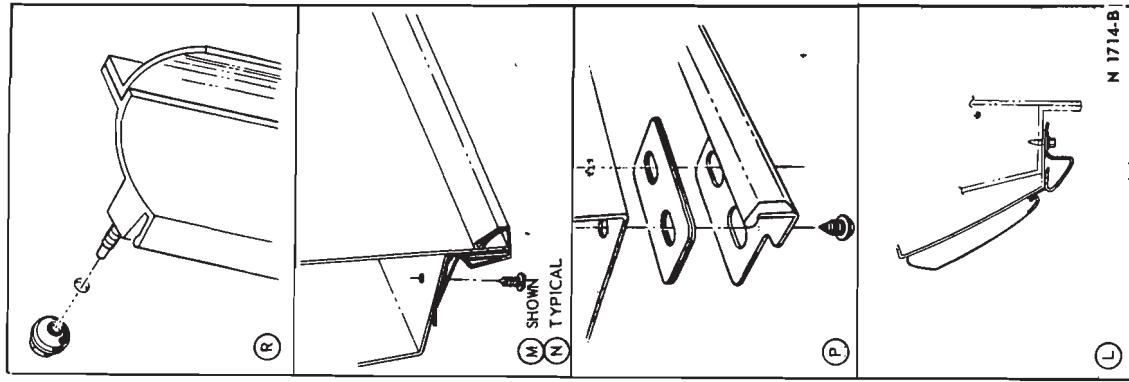
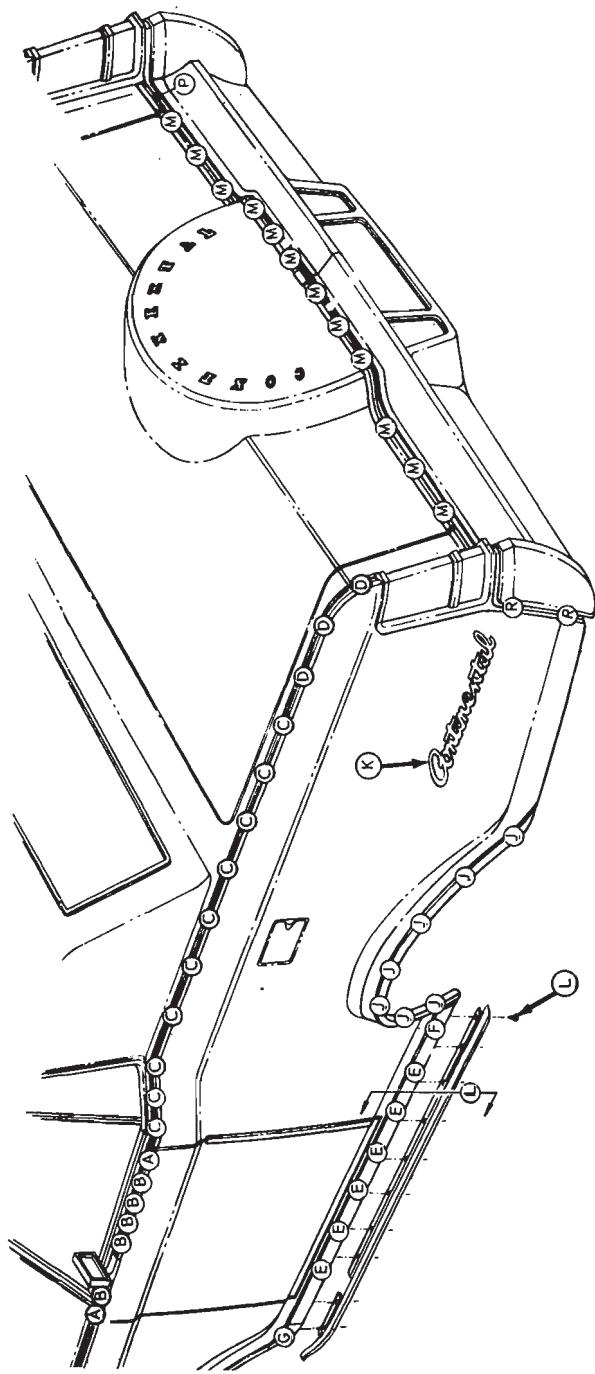


FIG. 5—Continental Mark III Exterior Side and Rear Moulding Installation

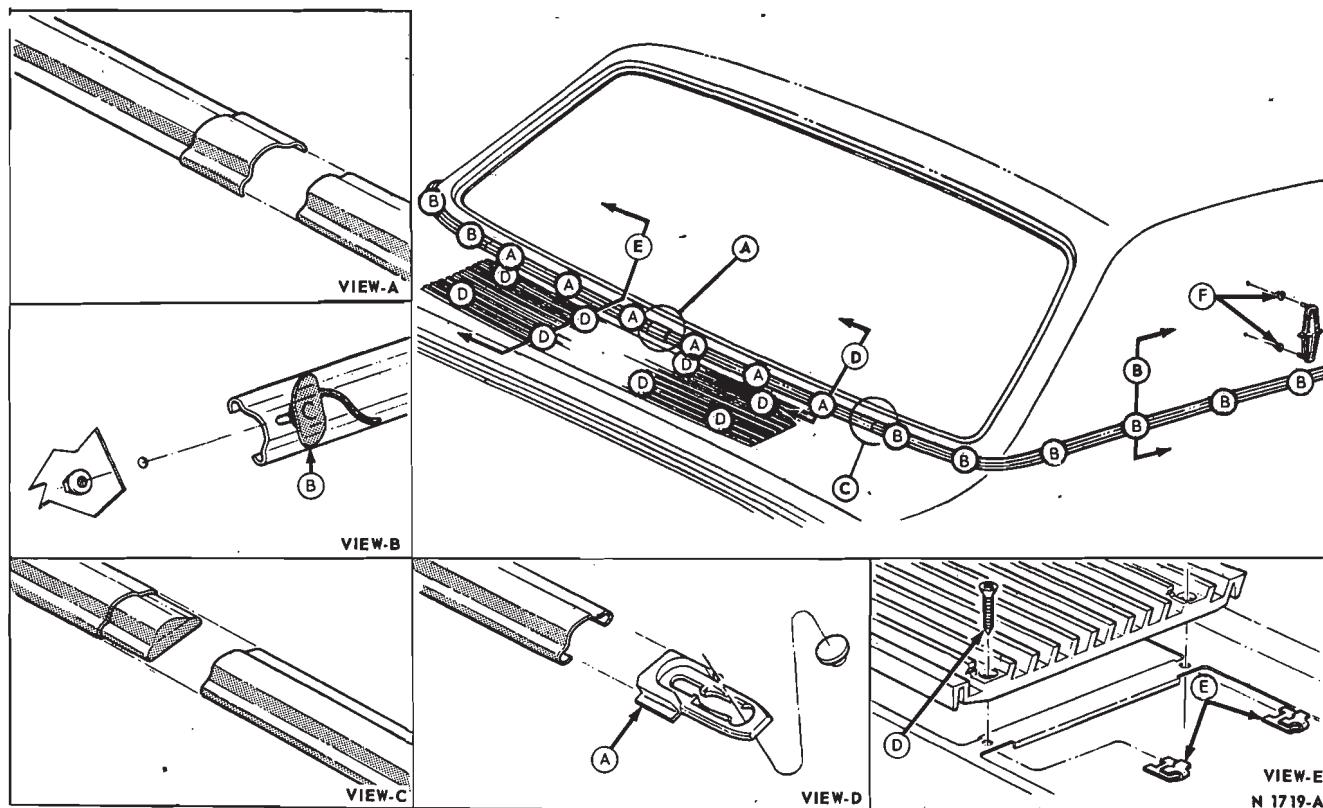


FIG. 6—Continental Mark III Rear Belt Moulding and Air Vent Grille Installation

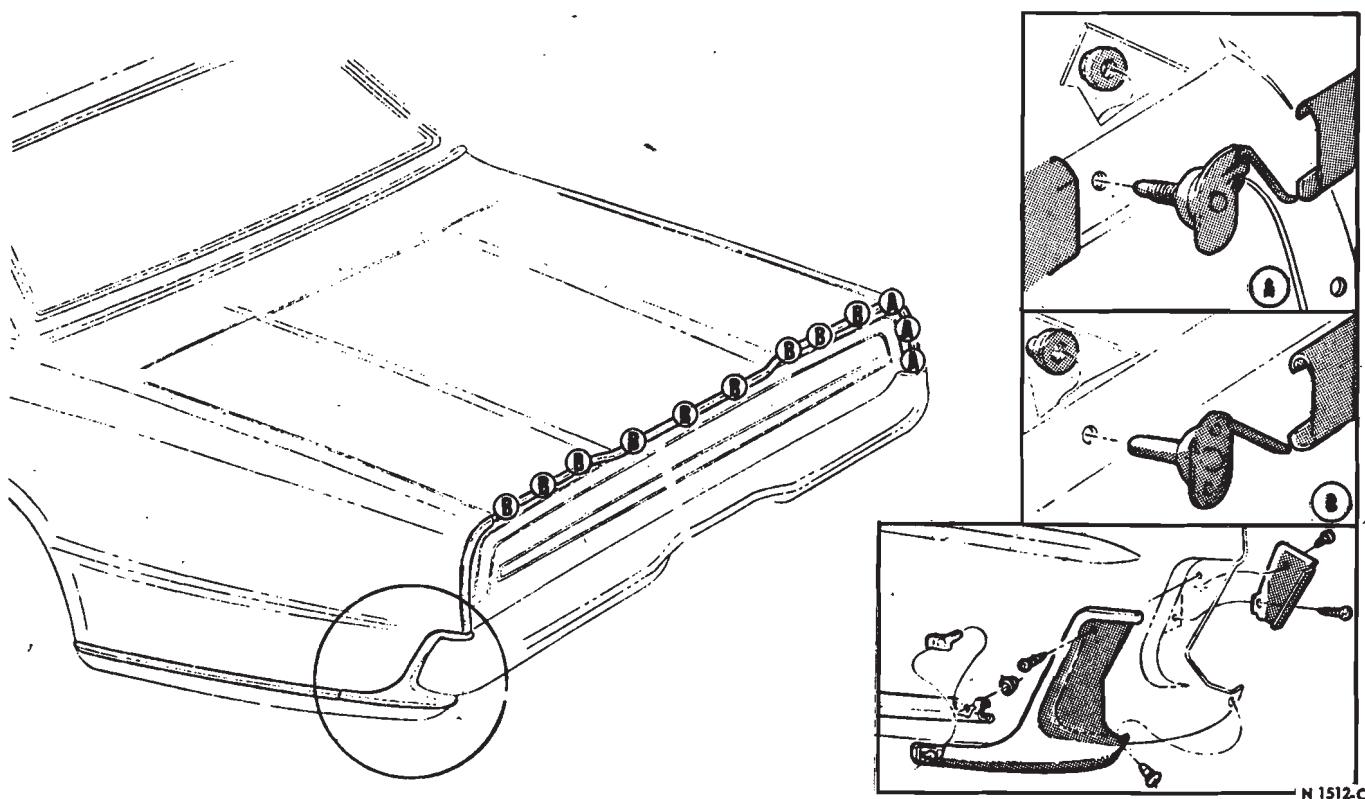
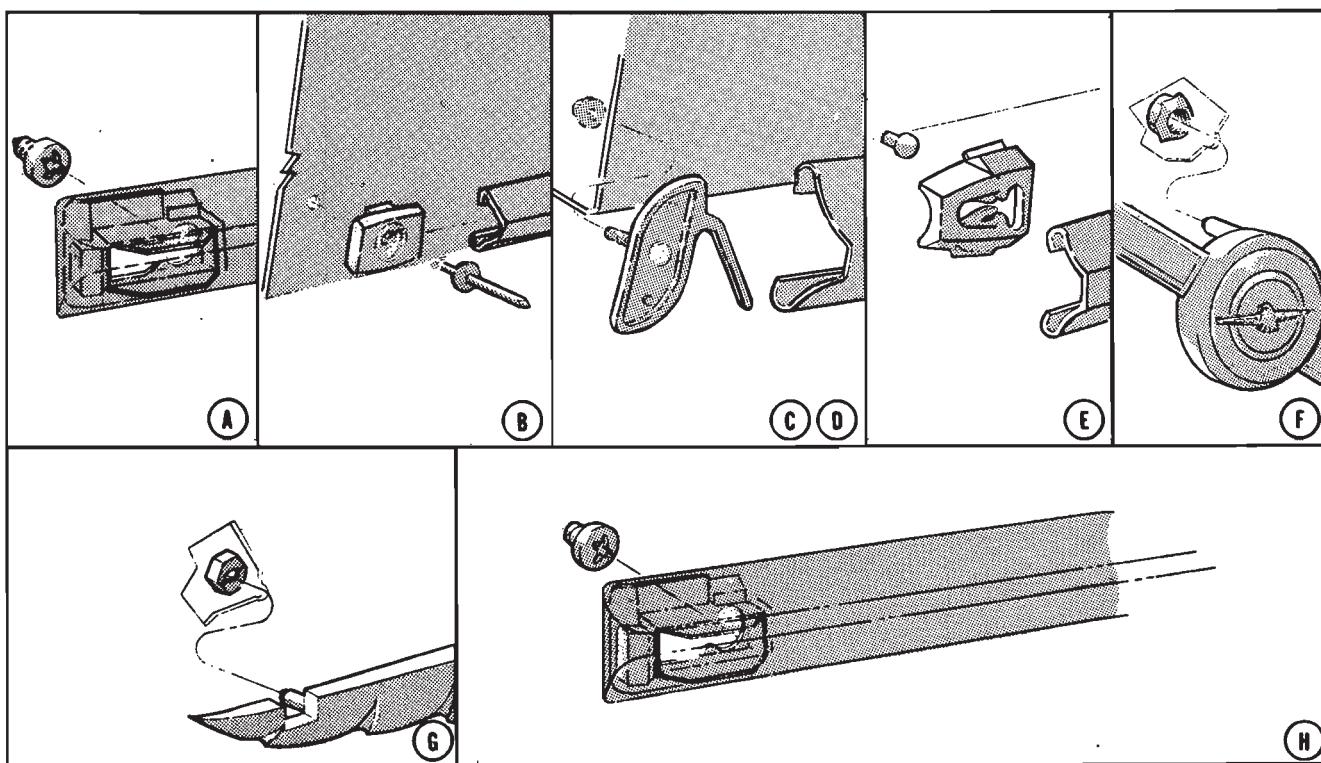
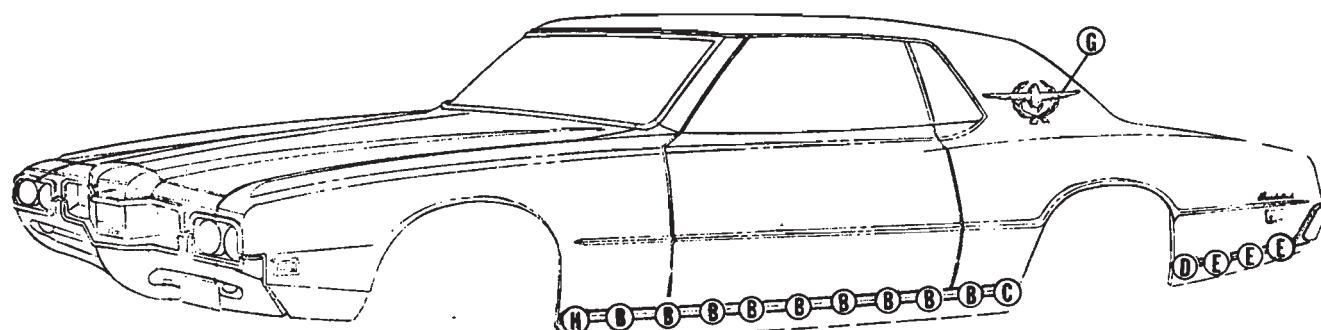
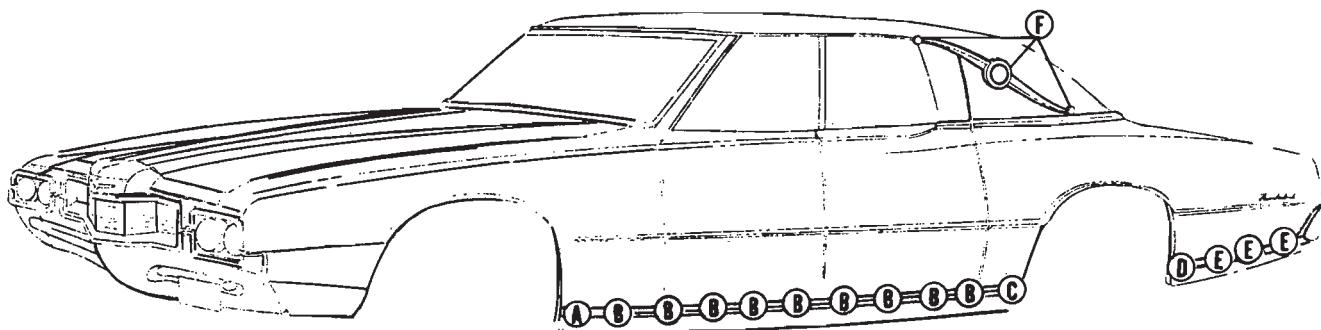


FIG. 7—Thunderbird Exterior Rear Moulding Installation



N 1513-D

FIG. 8—Thunderbird Exterior Side Moulding Installation

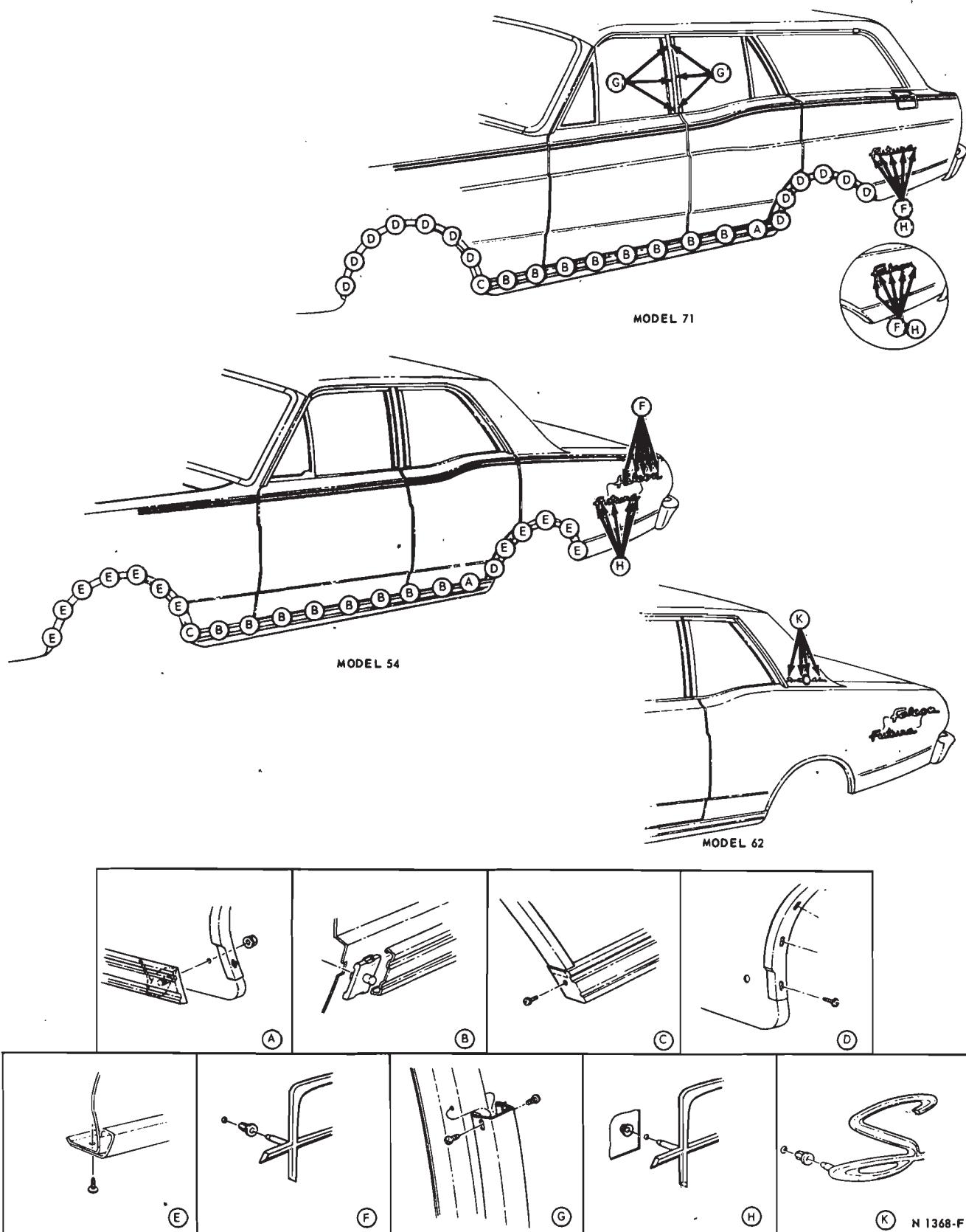
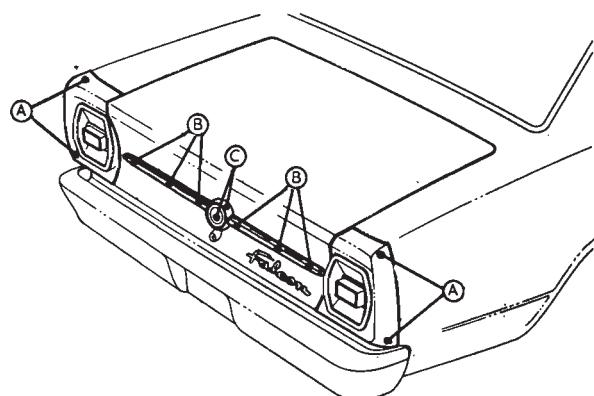
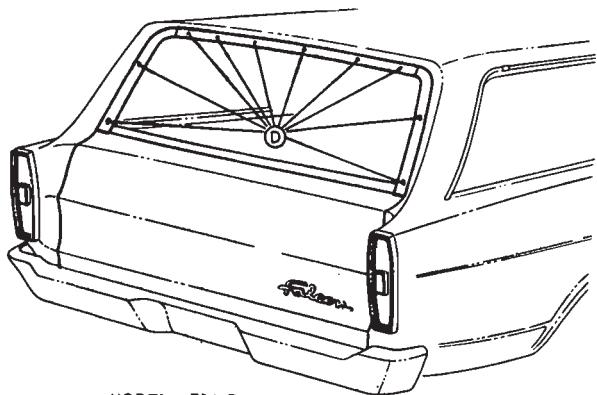


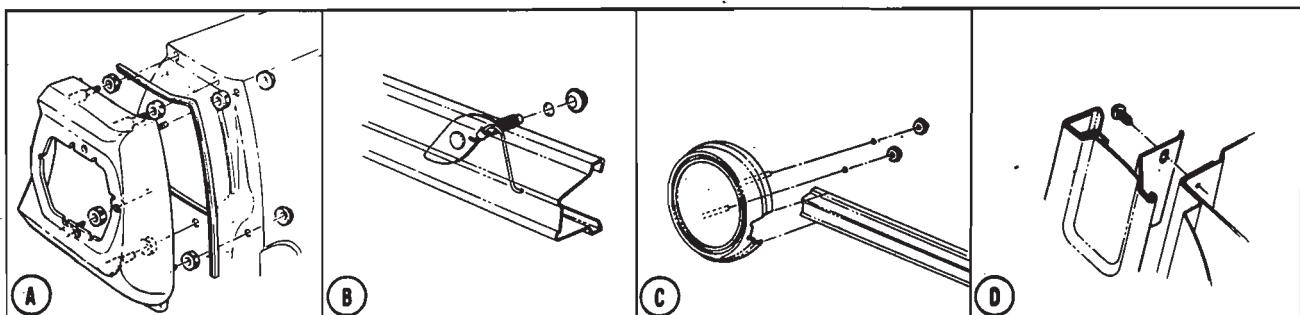
FIG. 9—Falcon Exterior Side Moulding Installation



MODELS - 54B, 62B-C SHOWN . MODELS - 54A, 62A TYPICAL

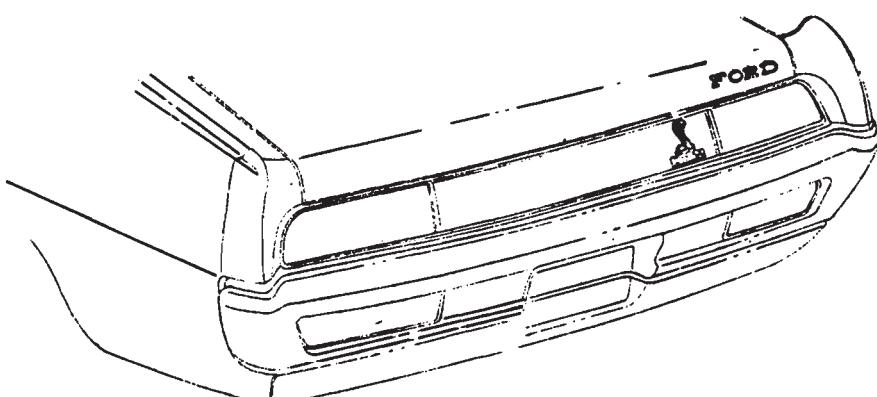


MODEL - 71A-B

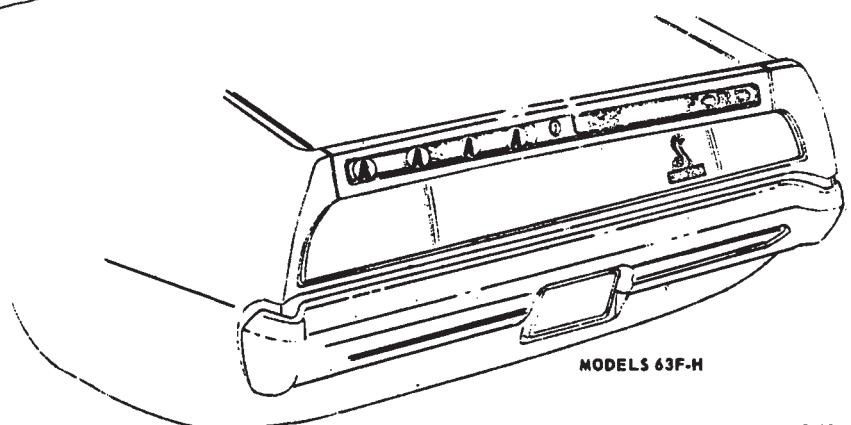
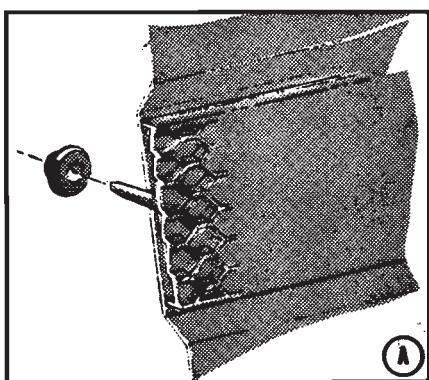


N 1372-F

FIG. 10—Falcon Exterior Rear Moulding Installation



MODELS 65F, 76F



MODELS 63F-H

N1803-A

FIG. 11—Fairlane Exterior Rear Moulding Installation

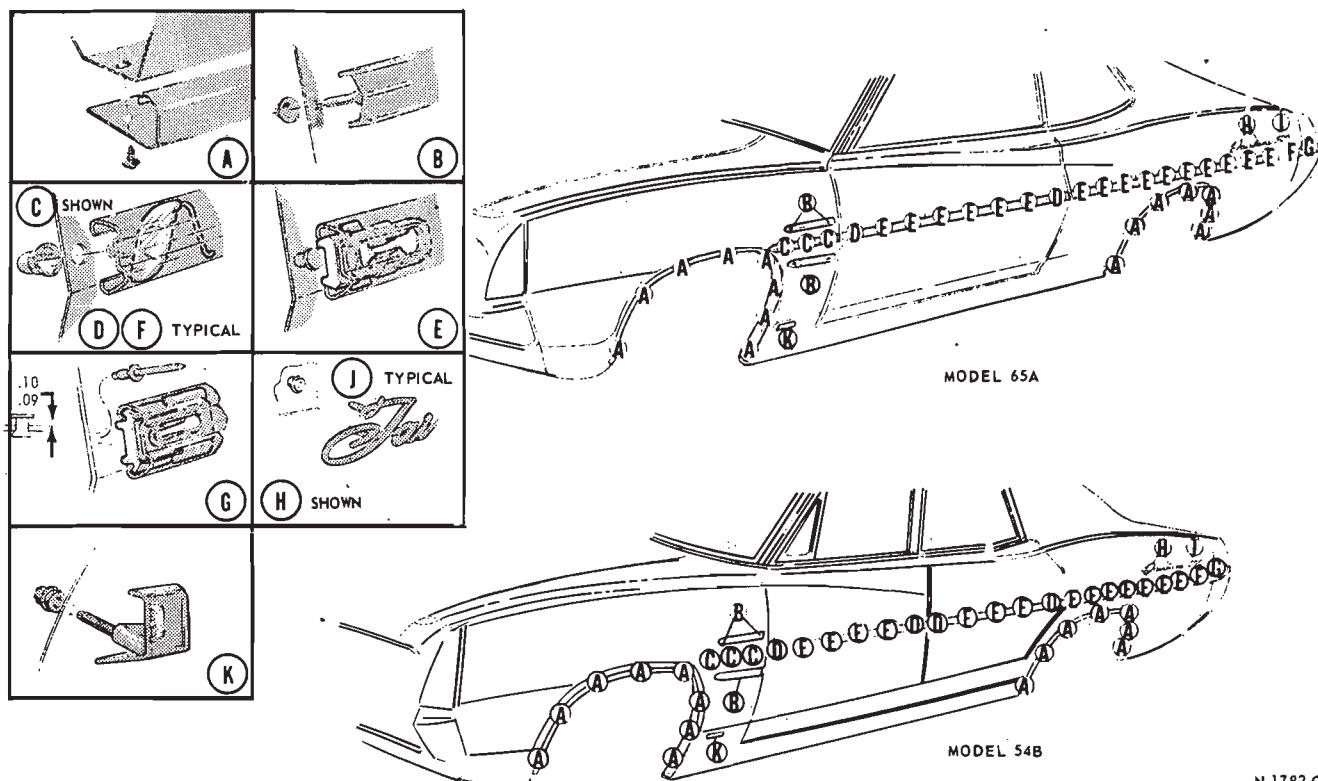


FIG. 12—Fairlane Exterior Side Moulding Installation—Models 54A and 65A

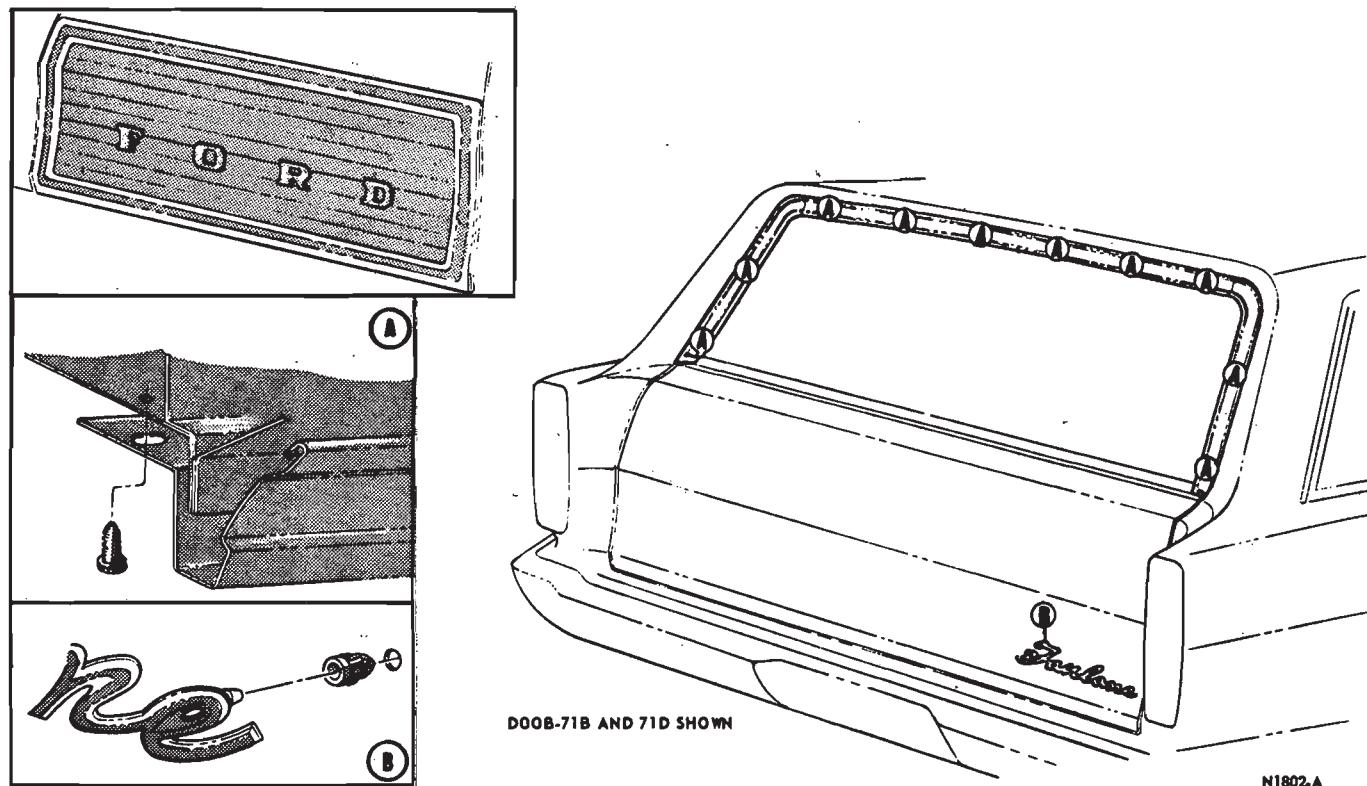
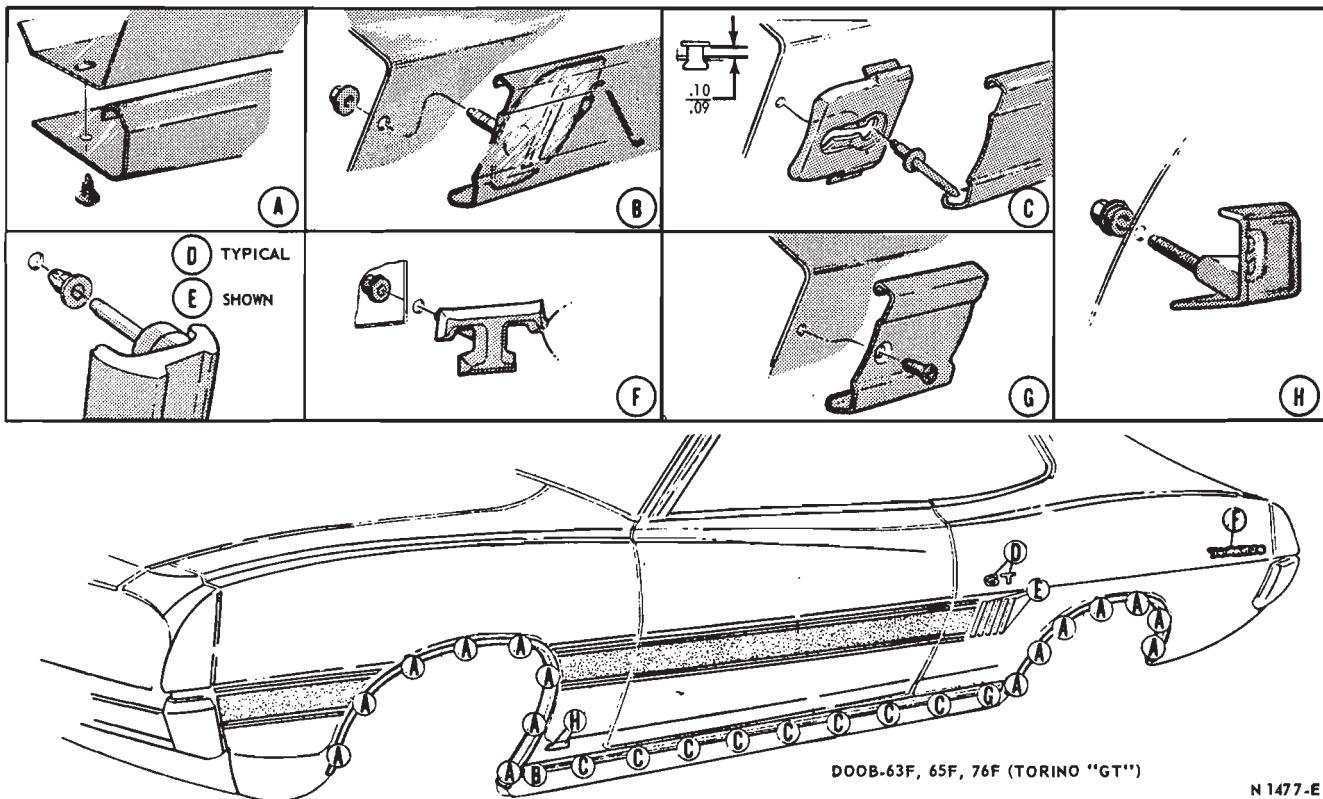
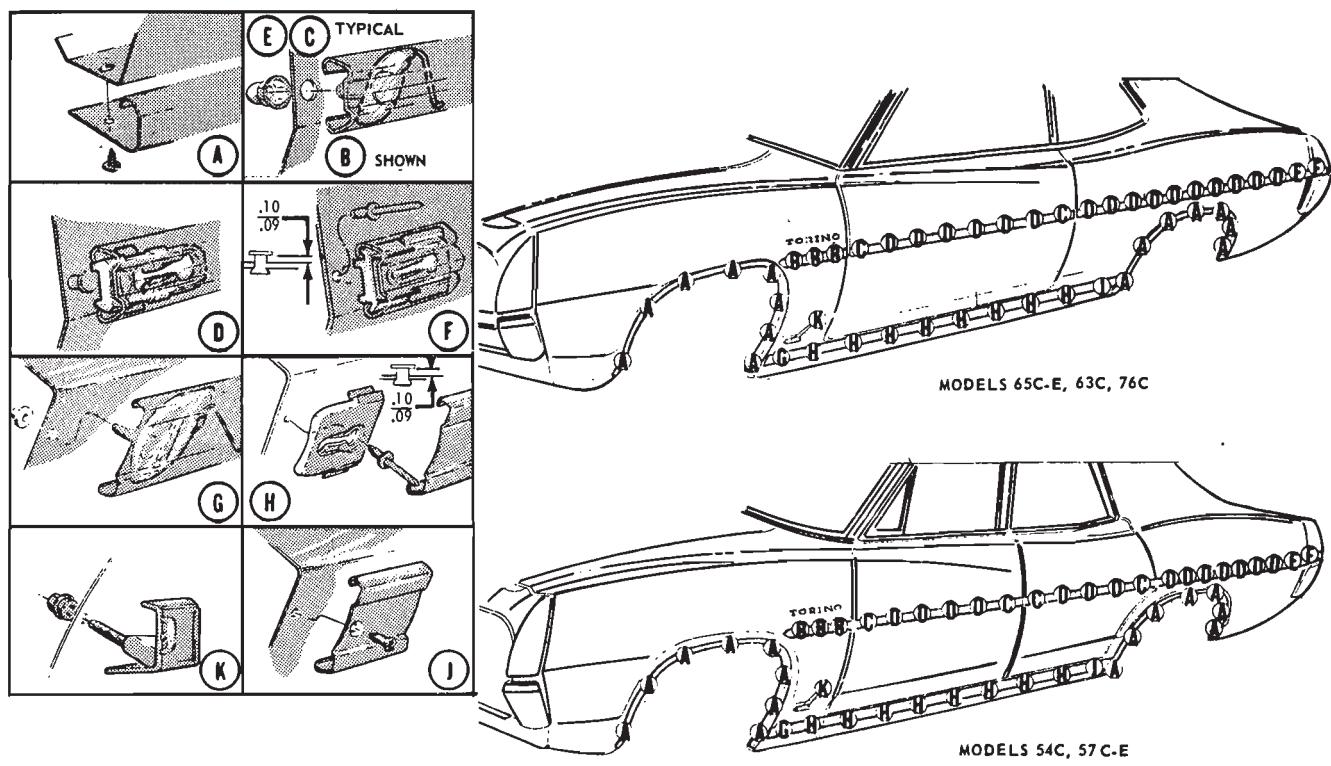


FIG. 13—Fairlane Exterior Rear Moulding Installation—Model 71



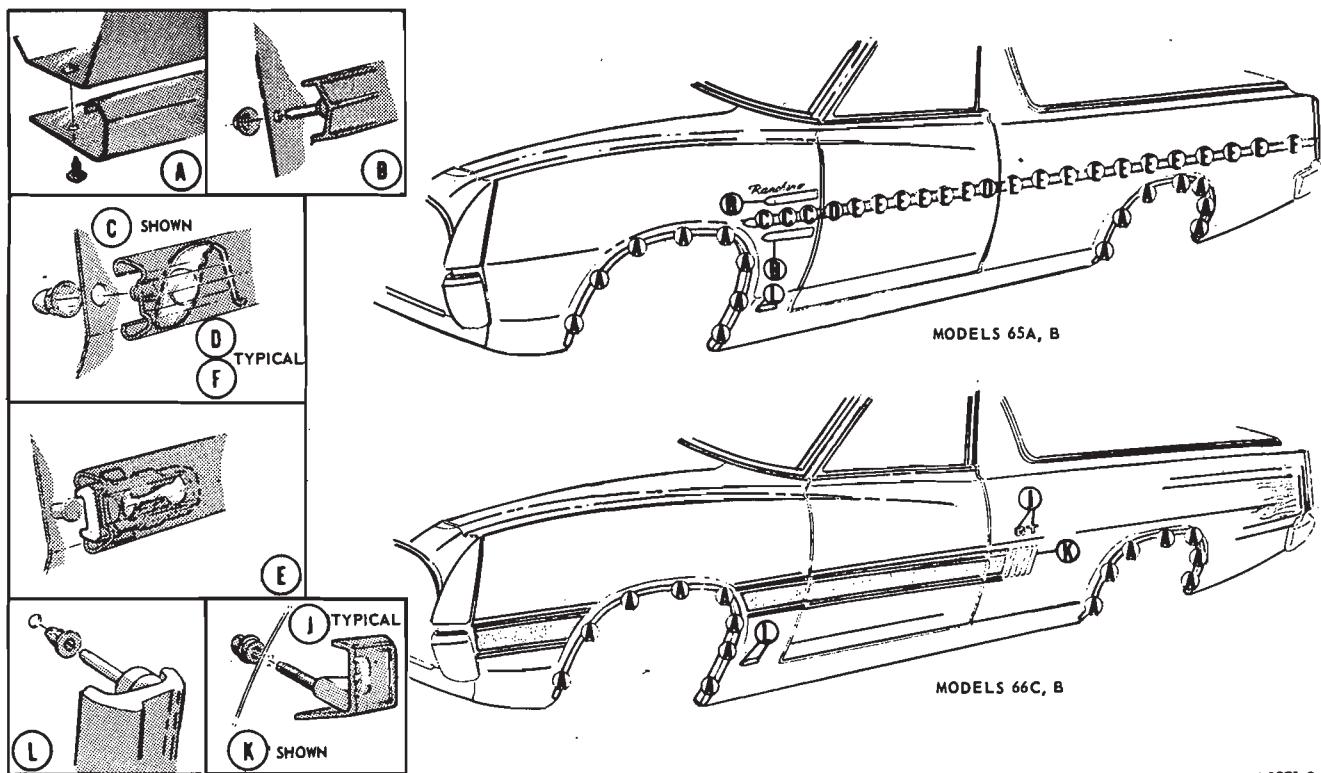
N 1477-E

FIG. 14—Fairlane Exterior Side Moulding Installation—Models 65D-F and 76D-F



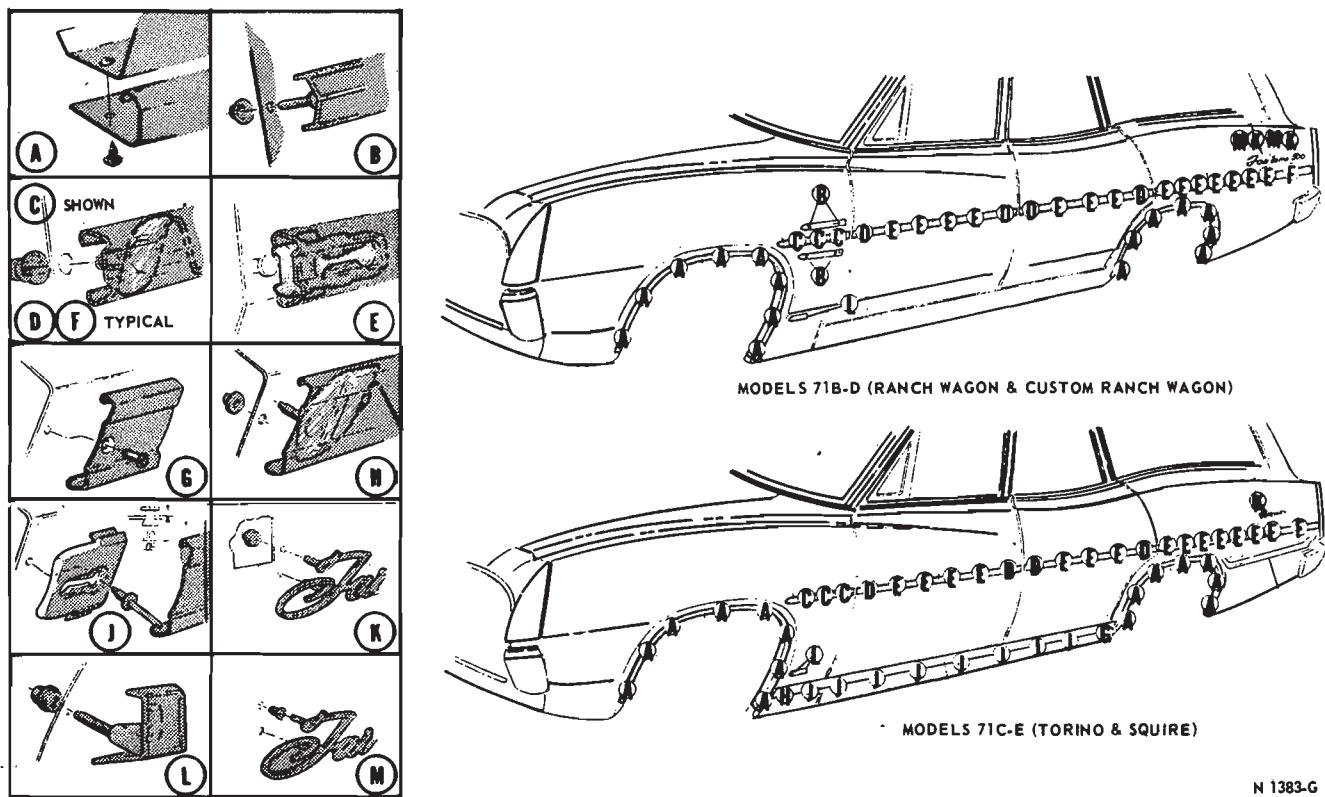
N 1075-C

FIG. 15—Fairlane Exterior Side Moulding Installation—Models 54B, 63B-E, 65B-E, 66B and 76B-E



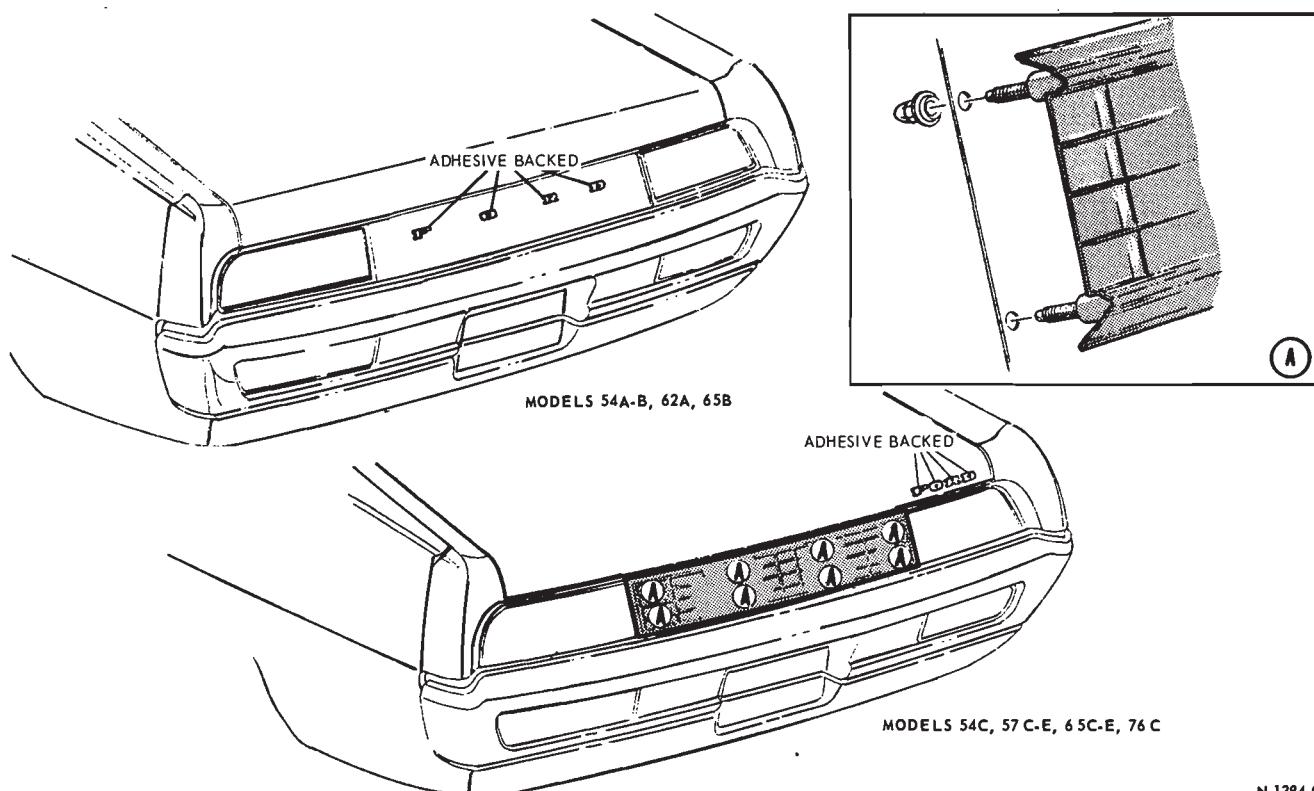
N 1371-G

FIG. 16—Fairlane Exterior Side Moulding Installation—Model 66



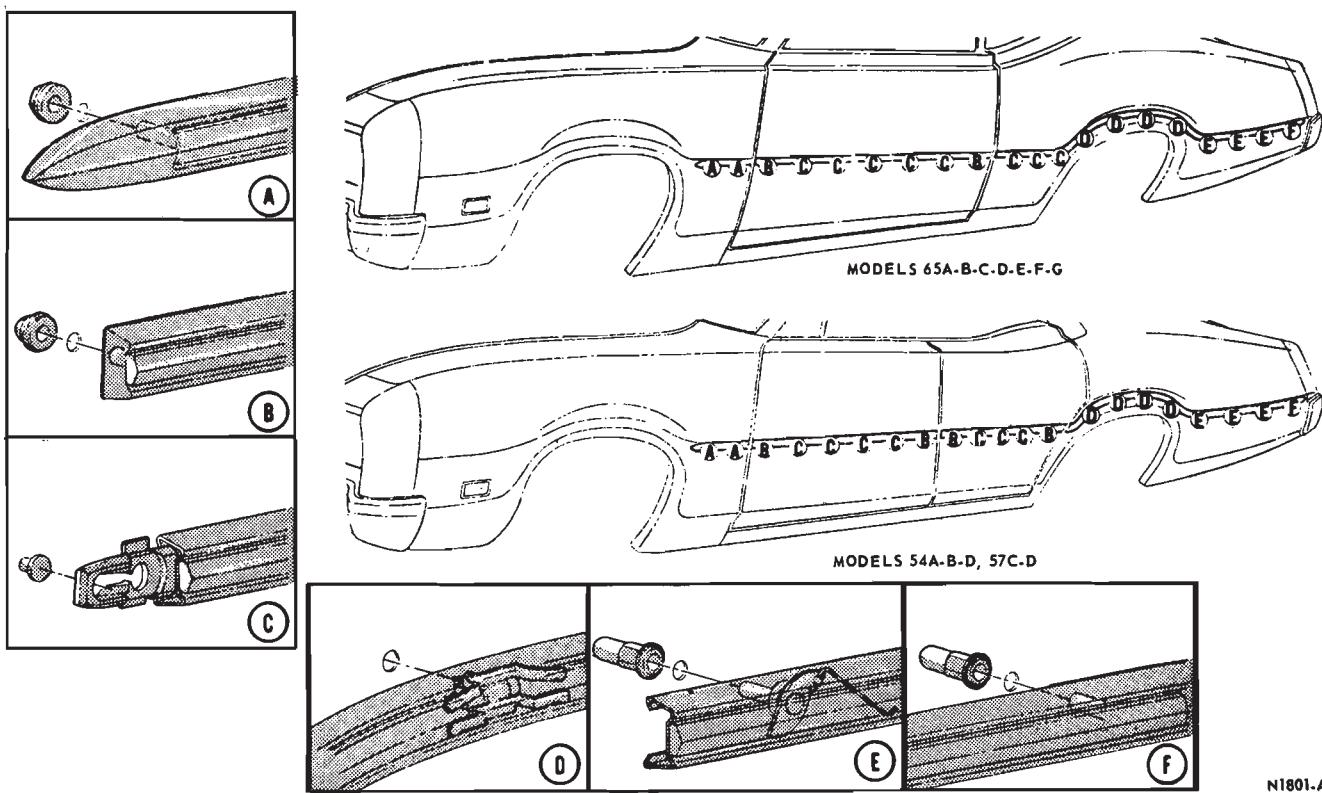
N 1383-G

FIG. 17—Fairlane Exterior Side Moulding Installation—Model 71



N 1384-G

FIG. 18—Fairlane Exterior Rear Moulding Installation—Models 54, 65 and 76



N1801.A

FIG. 20—Montego Exterior Side Moulding Installation—Models 54A-B-D, 57C-D, 65A-B-C-D-E
(Fig. 19 is on the following page)

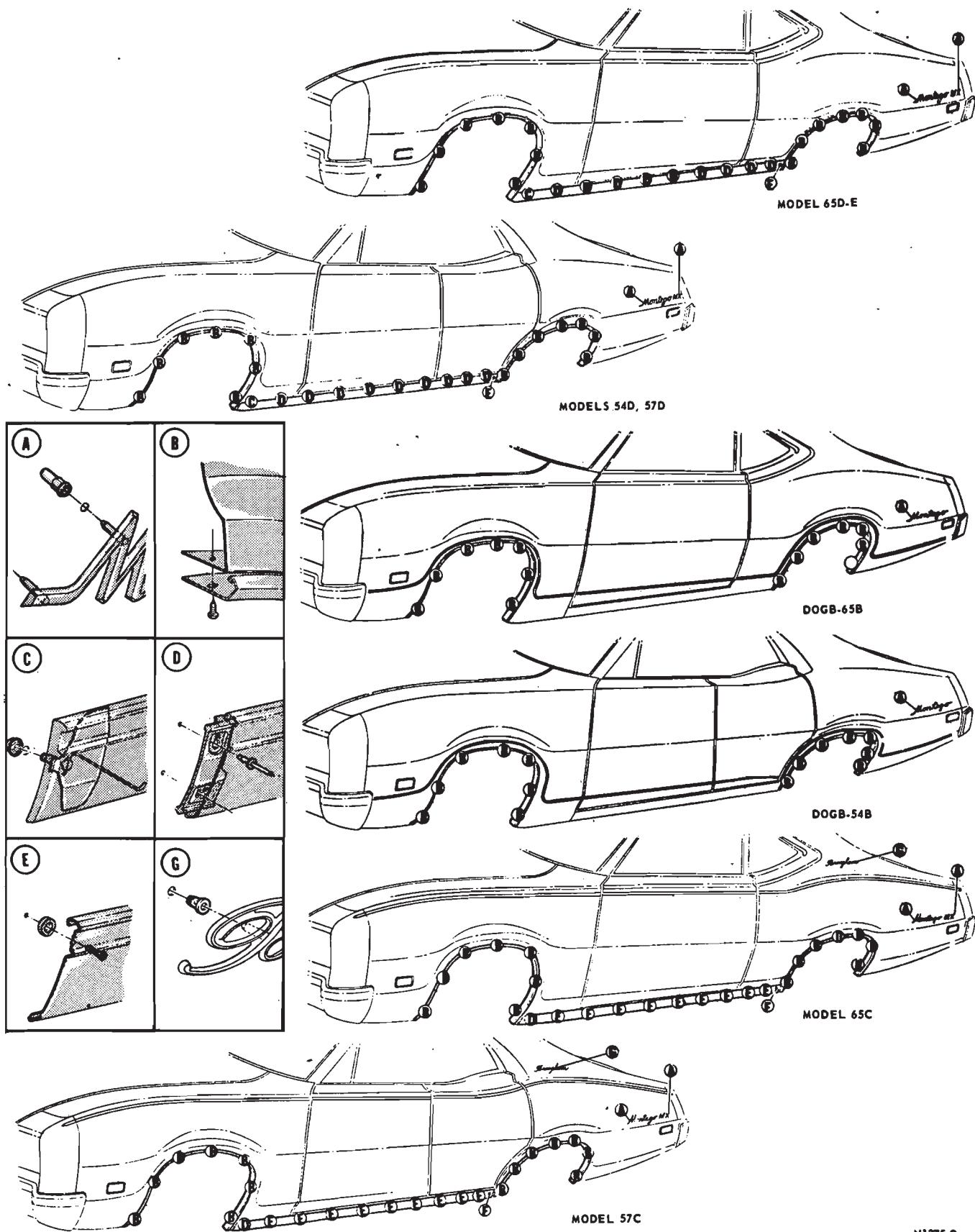


FIG. 19—Montego Exterior Side Moulding Installation—Models 54A-B and 65A-B

N1375-G

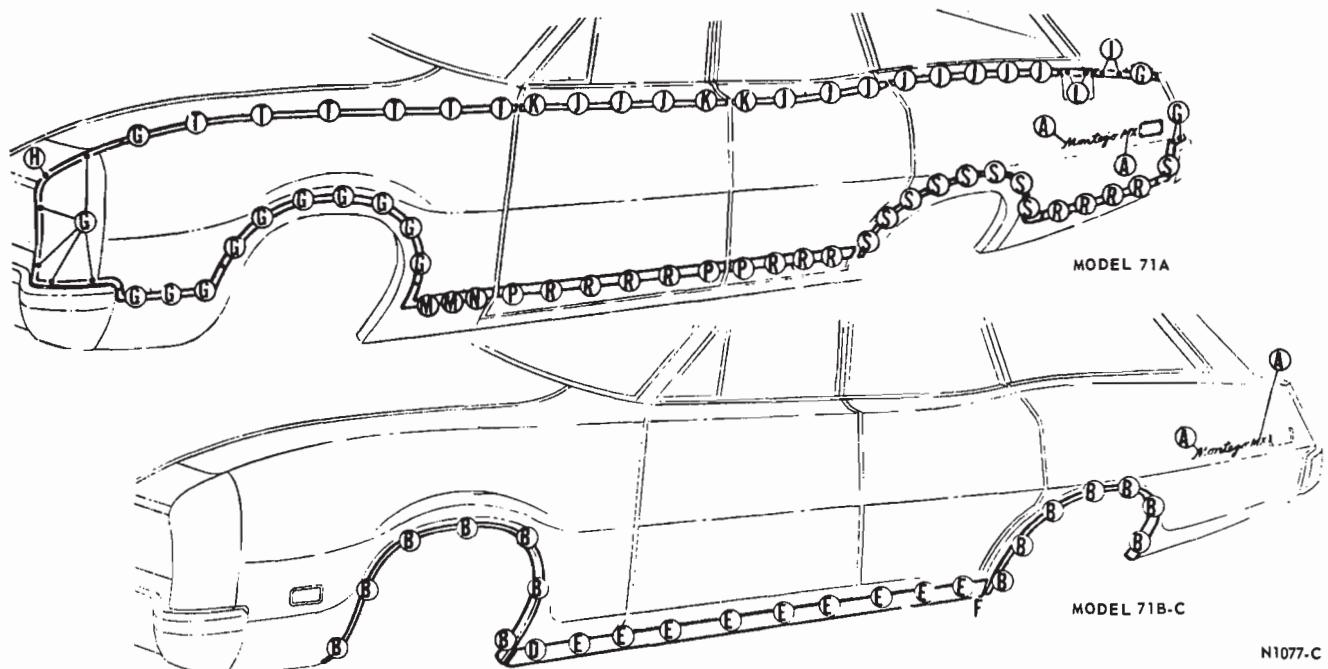
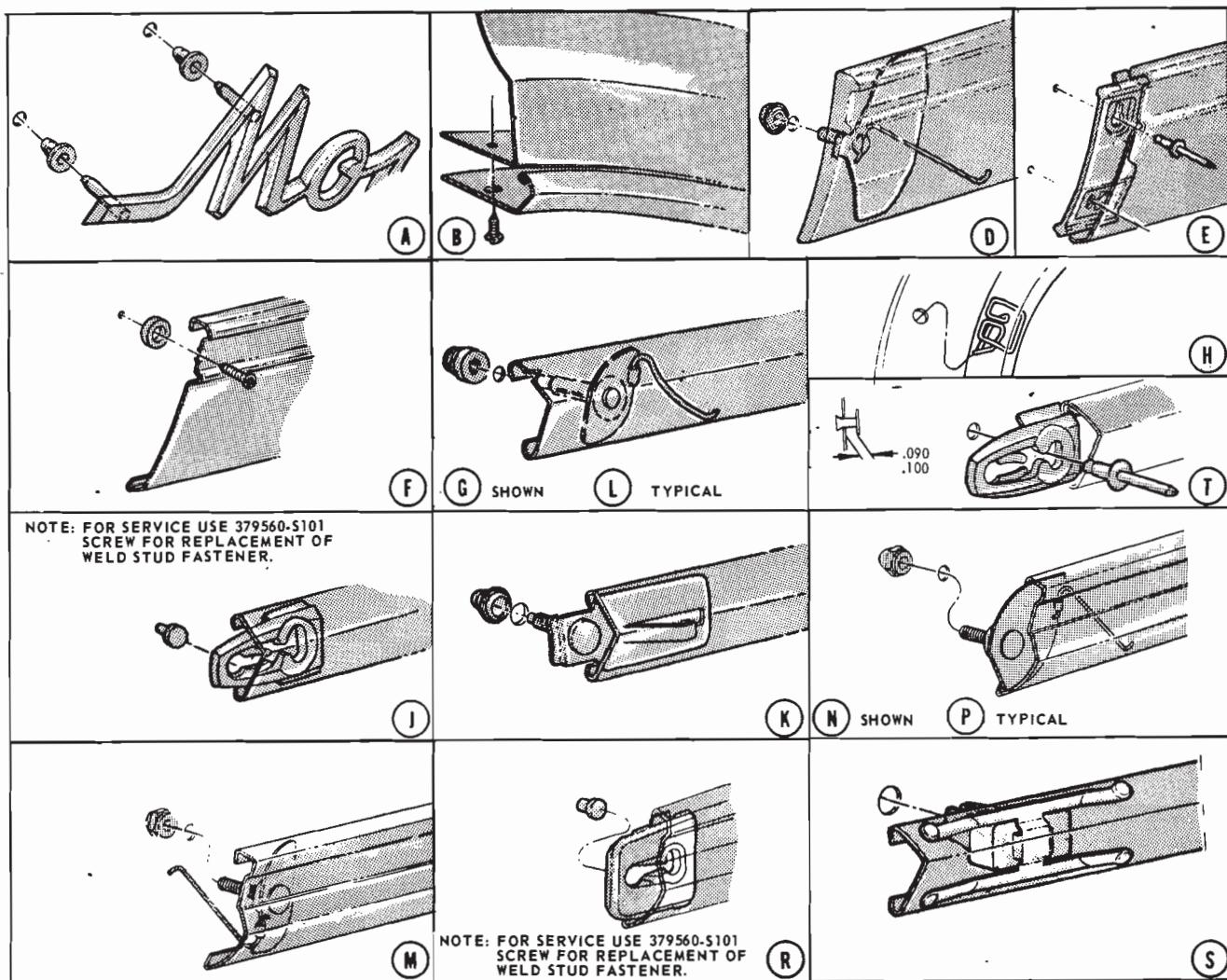
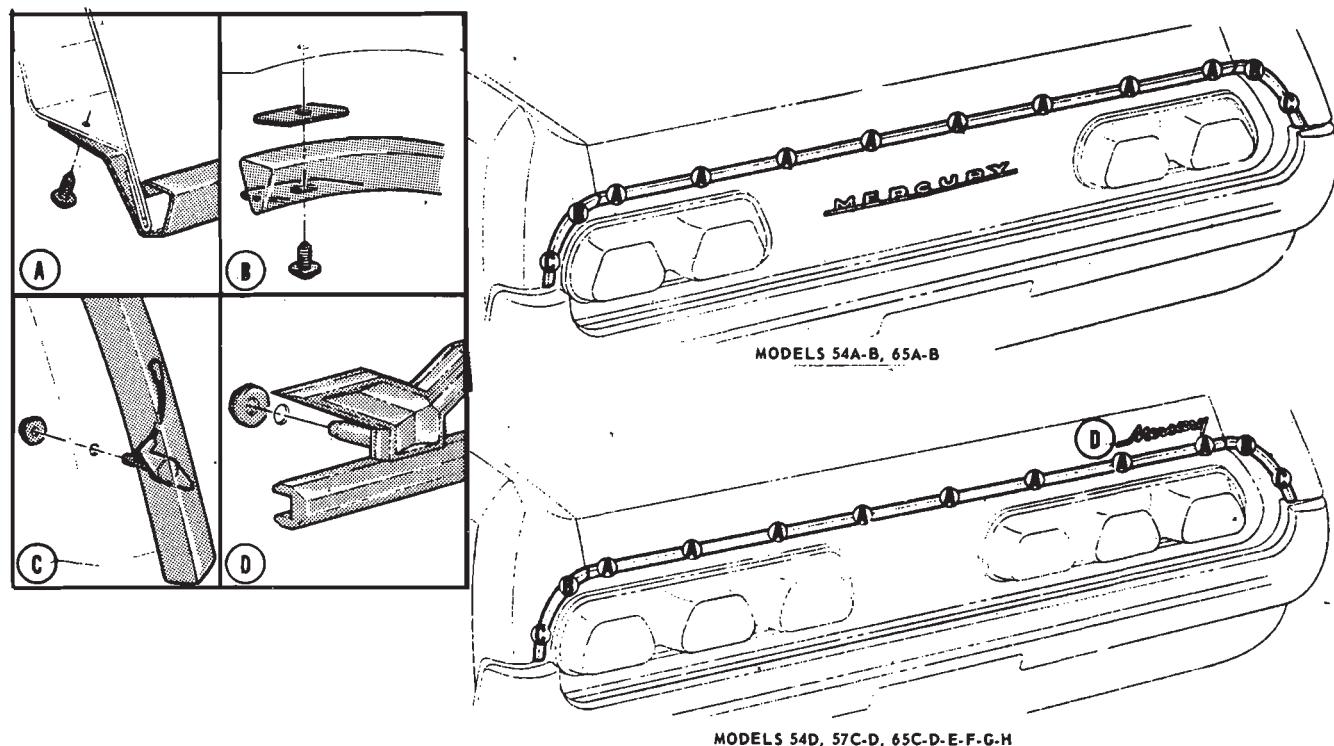
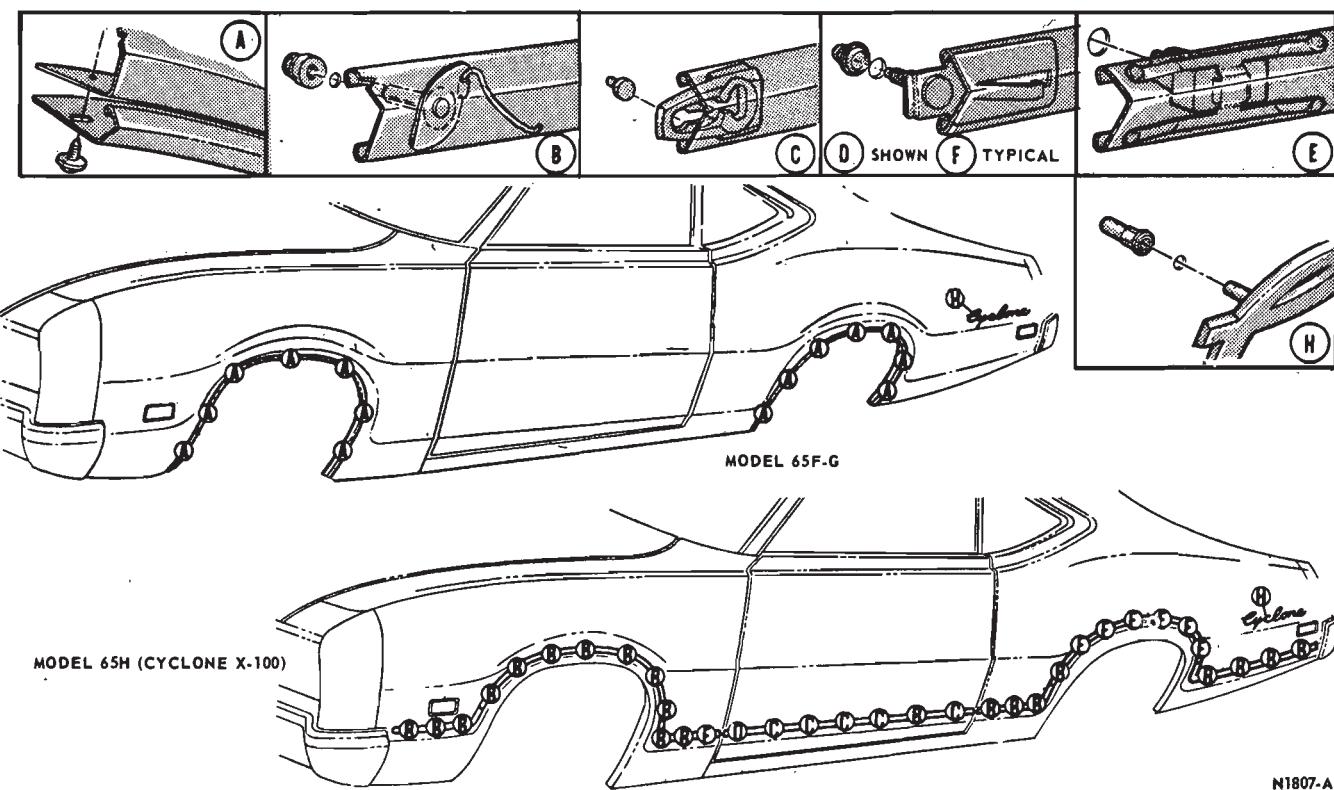


FIG. 21—Montego Exterior Side Moulding Installation—Model 71



N1377.G

FIG. 22—Montego Exterior Rear Moulding Installation—Models 54A-B and 65A-B



N1807-A

FIG. 23—Montego Exterior Rear Moulding Installation—Models 65F-G-H

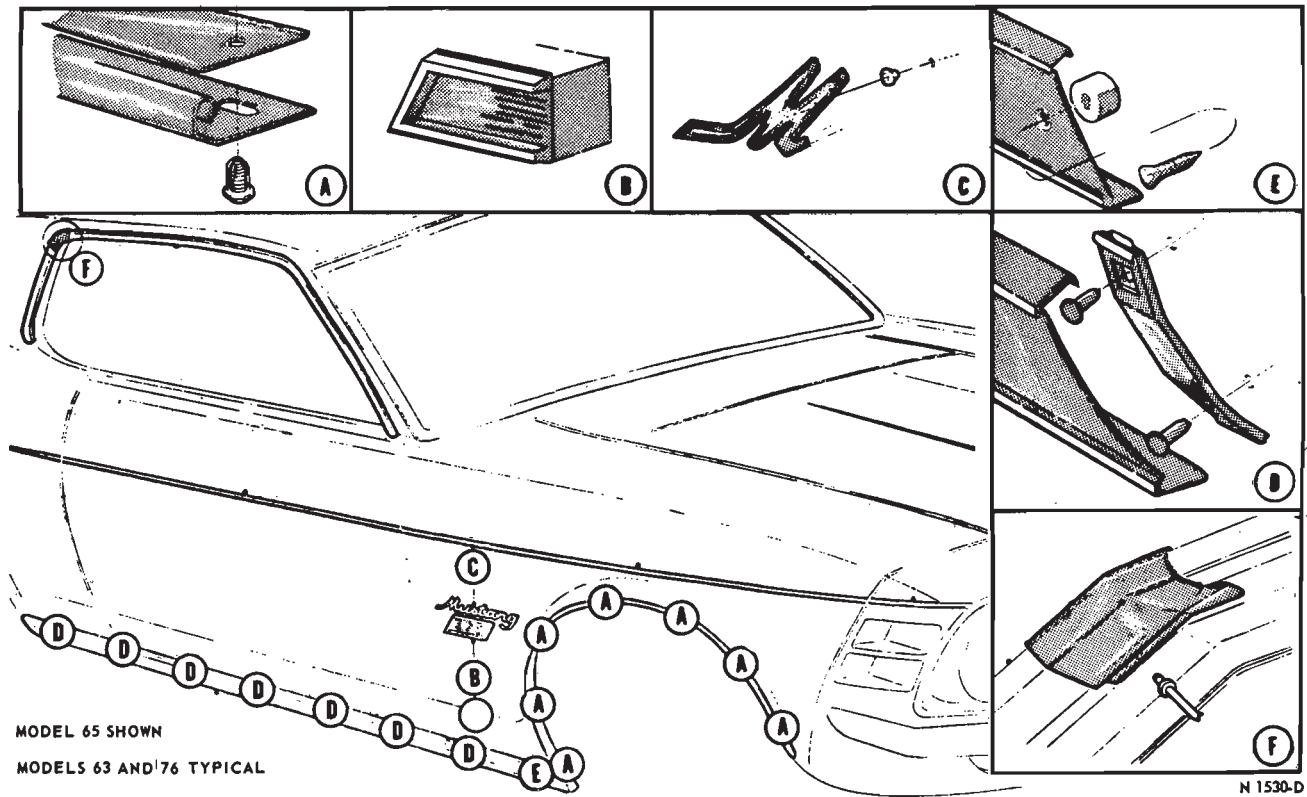


FIG. 24—Mustang Exterior Side Moulding Installation

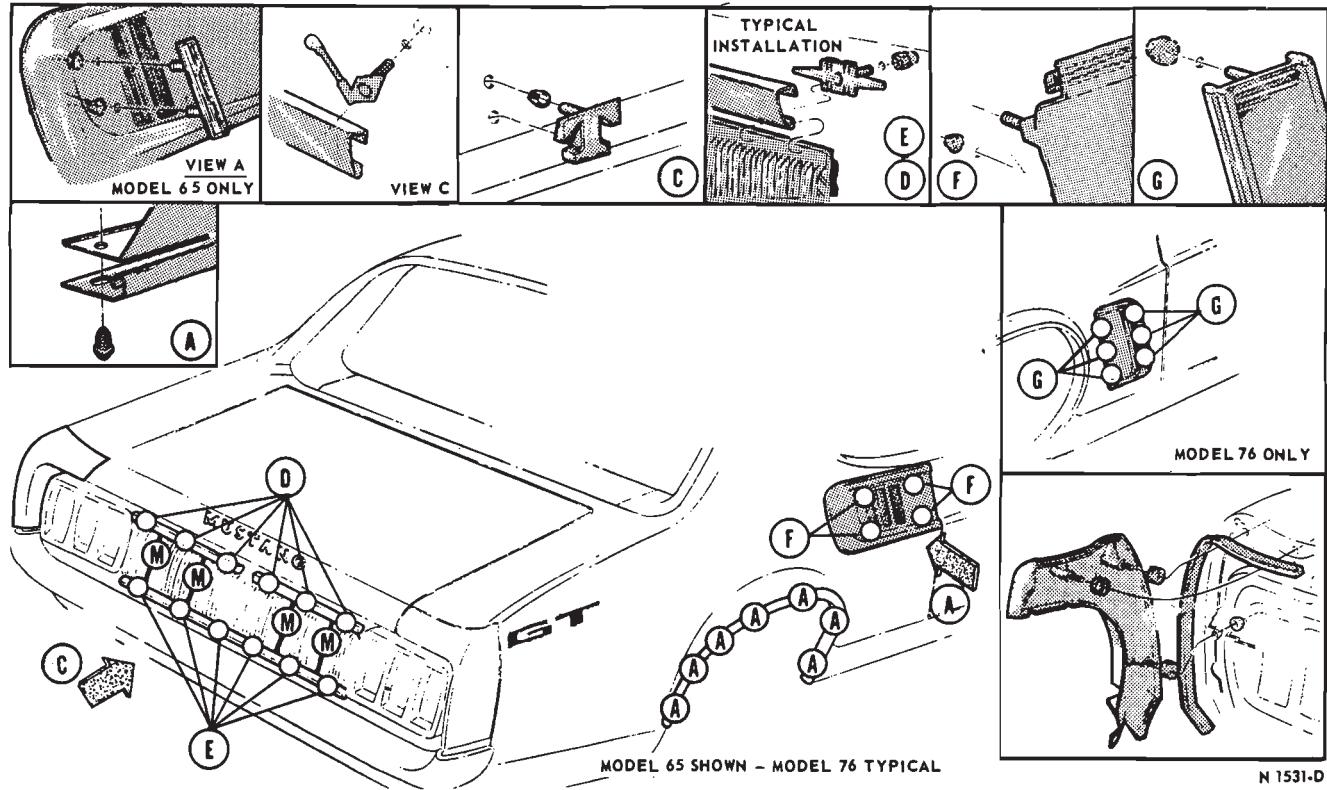
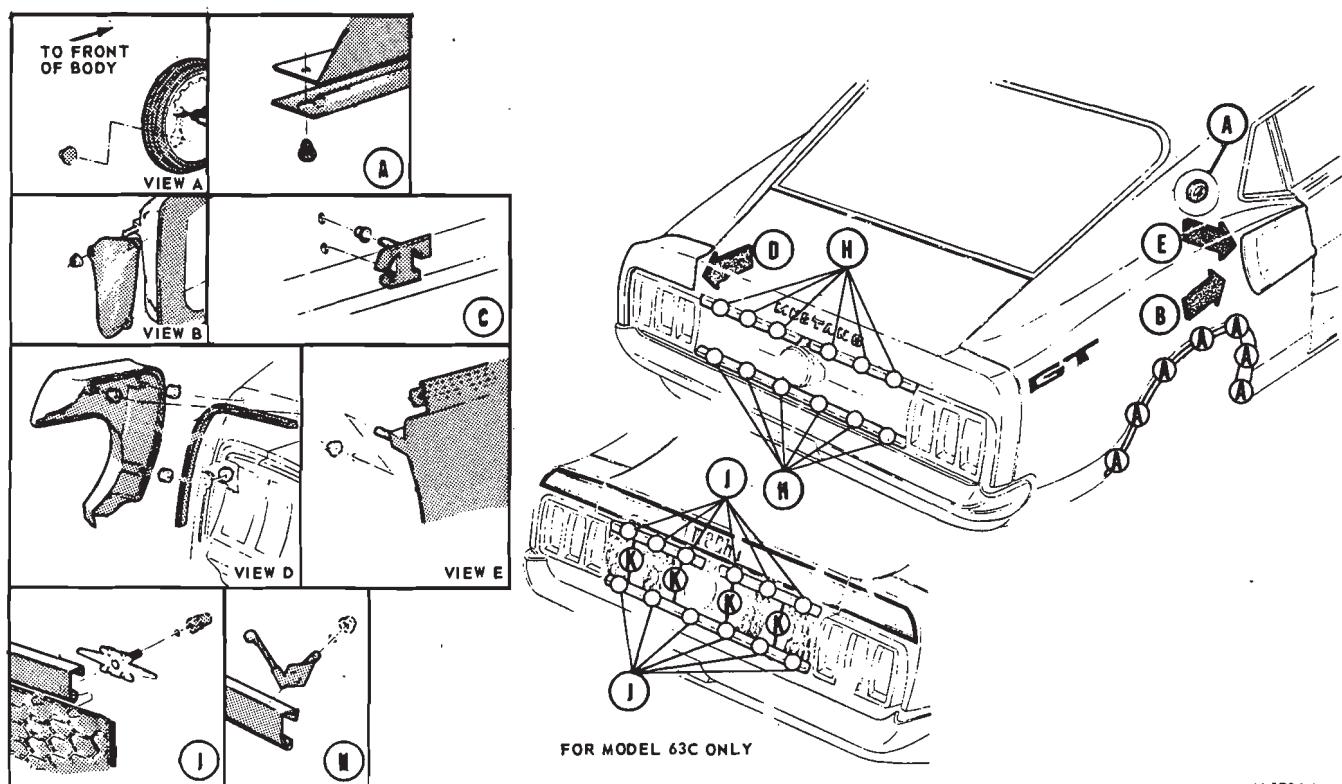
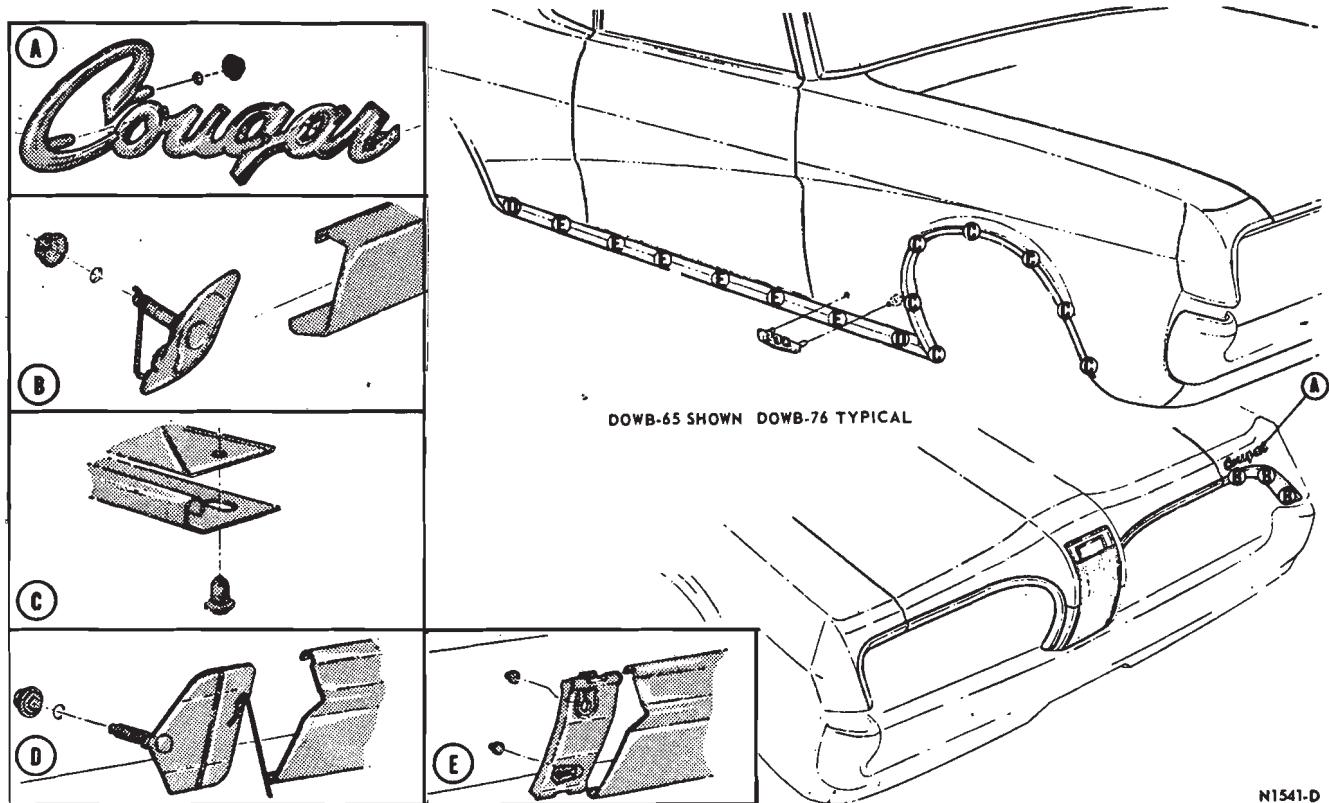


FIG. 25—Mustang Exterior Rear Moulding Installation



N 1794A

FIG. 26—Mustang Exterior Rear Moulding—Model 63



N1541-D

FIG. 27—Cougar Exterior Front and Side Moulding Installation

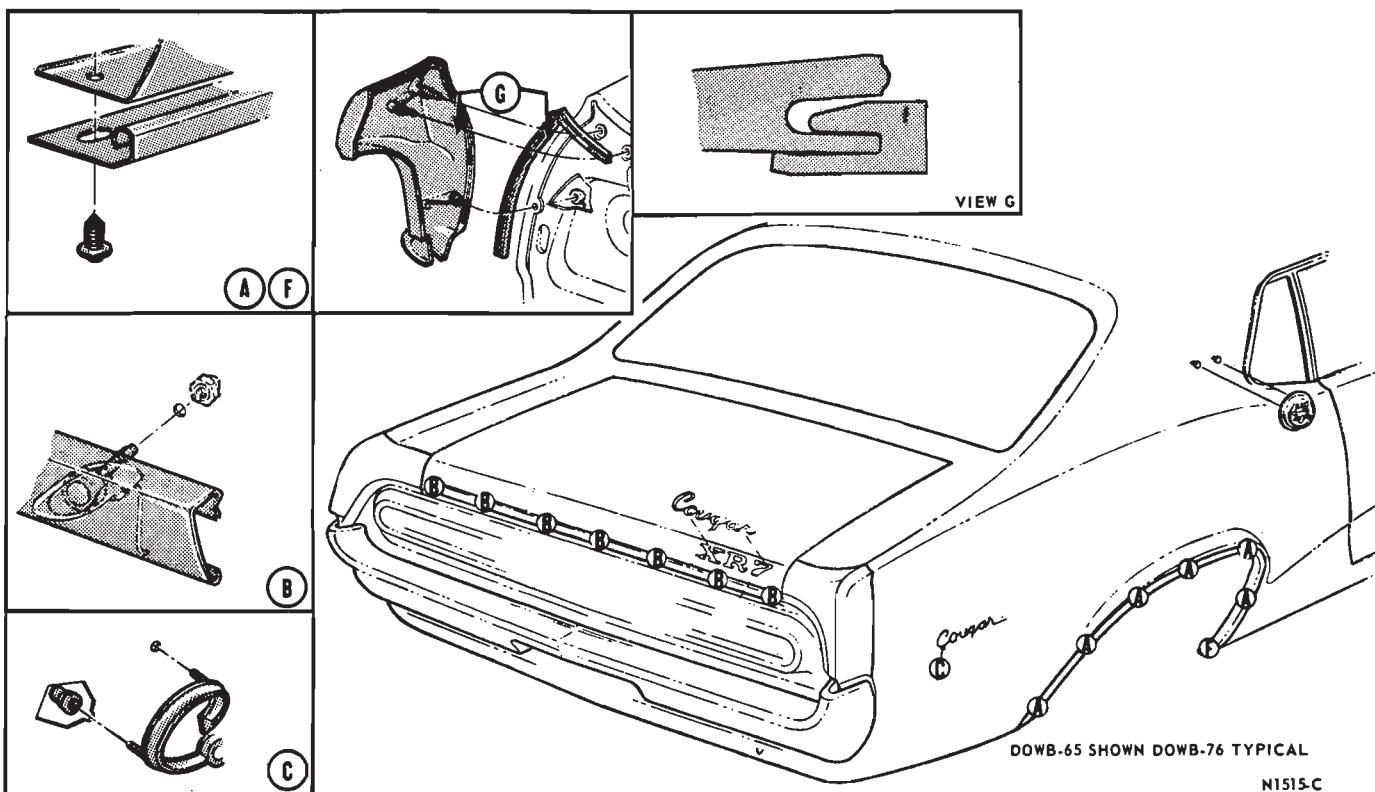


FIG. 28—Cougar Exterior Rear Moulding Installation

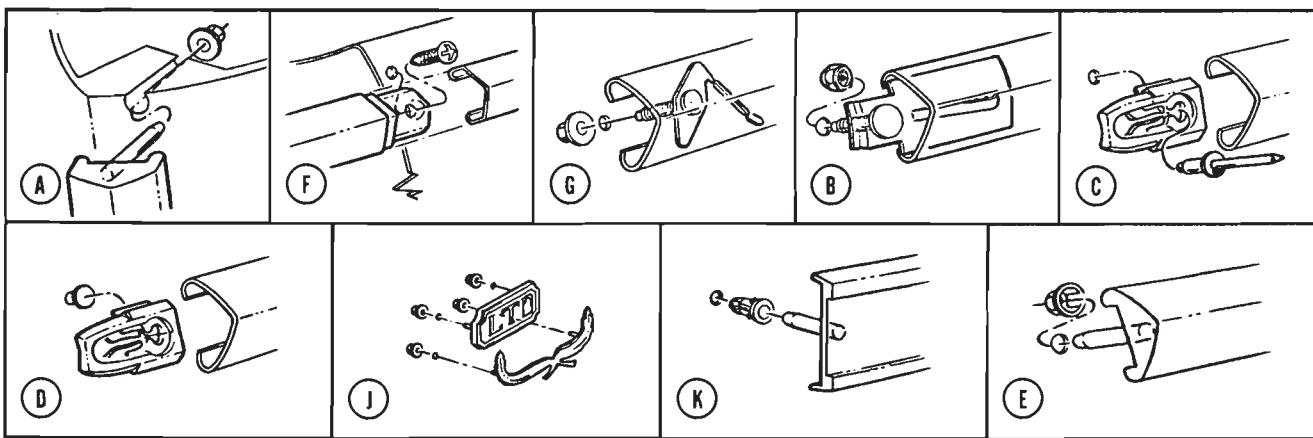
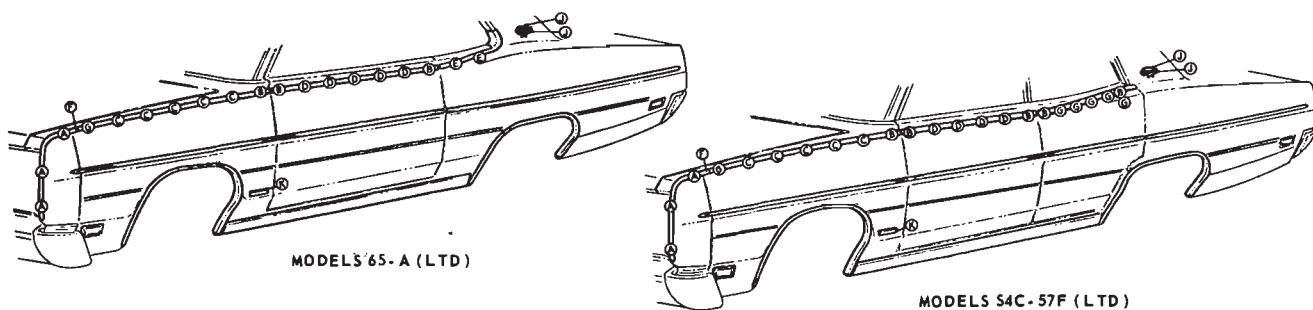
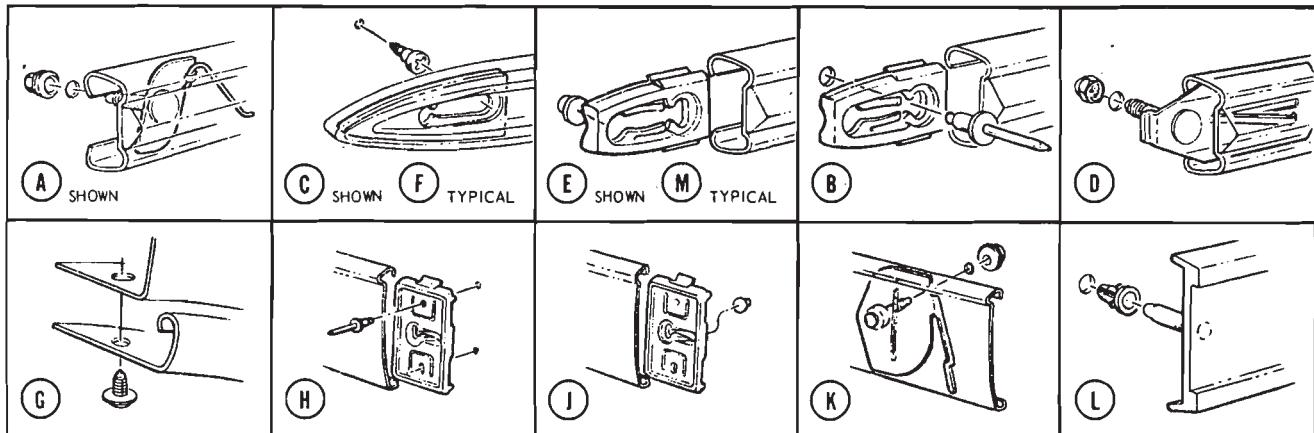
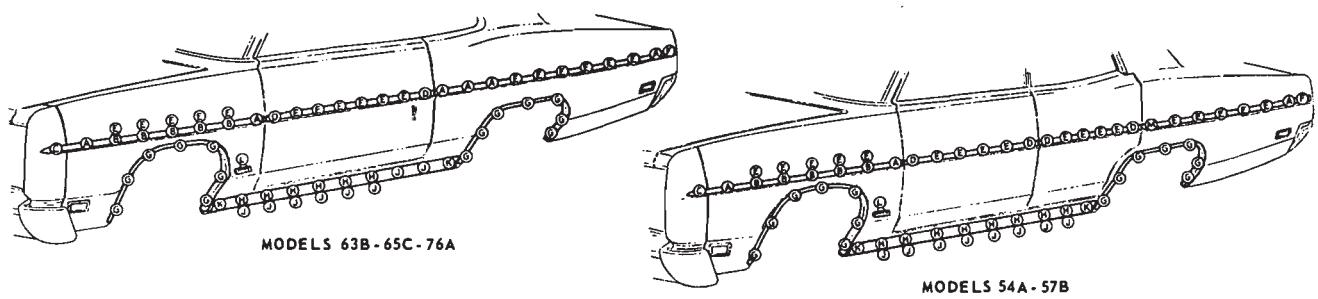
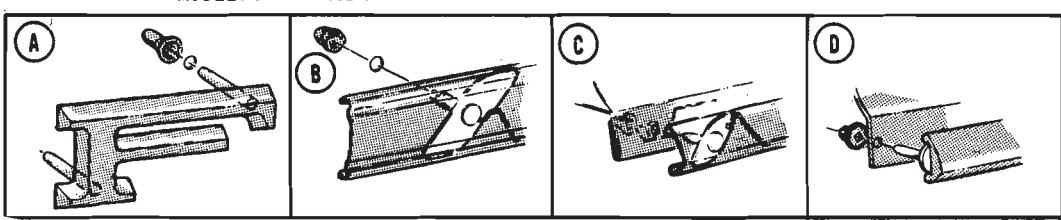
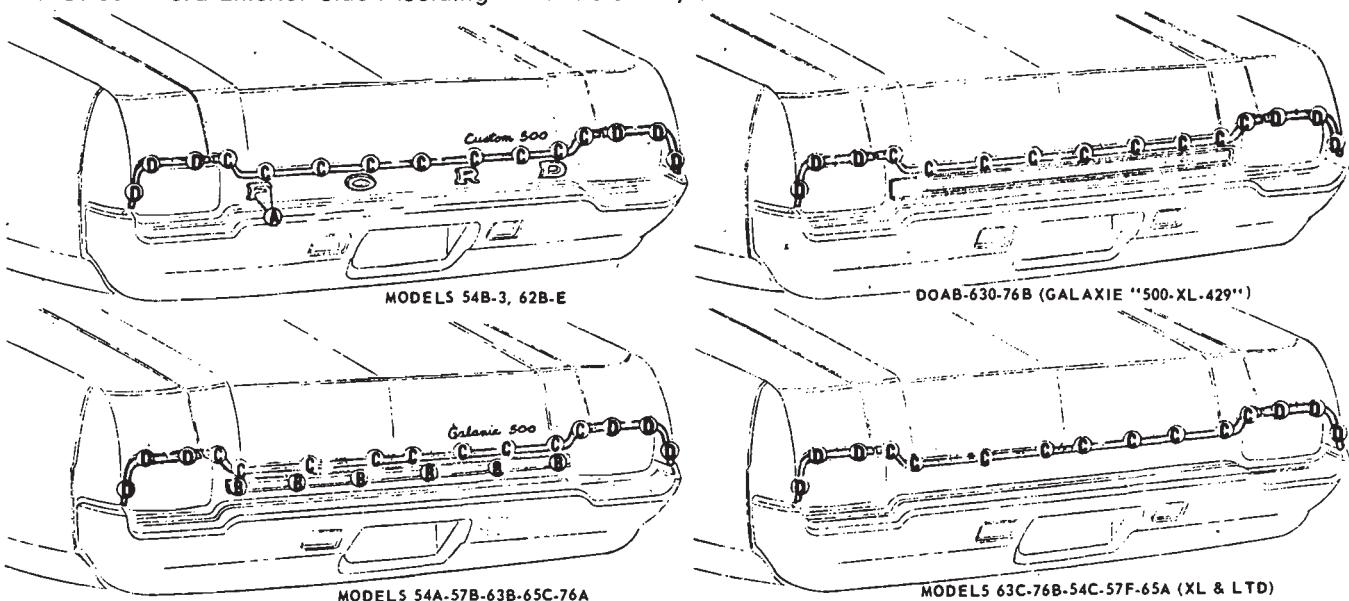


FIG. 29—Ford Exterior Side Moulding Installation—Models 54C, 57F and 65A



N1335-G

FIG. 30—Ford Exterior Side Moulding—Models 54B-E, 62B-E



N1333-H

FIG. 31—Ford Exterior Side and Rear Moulding Installation—Models 54A, 57B, 63B, 65C and 76A

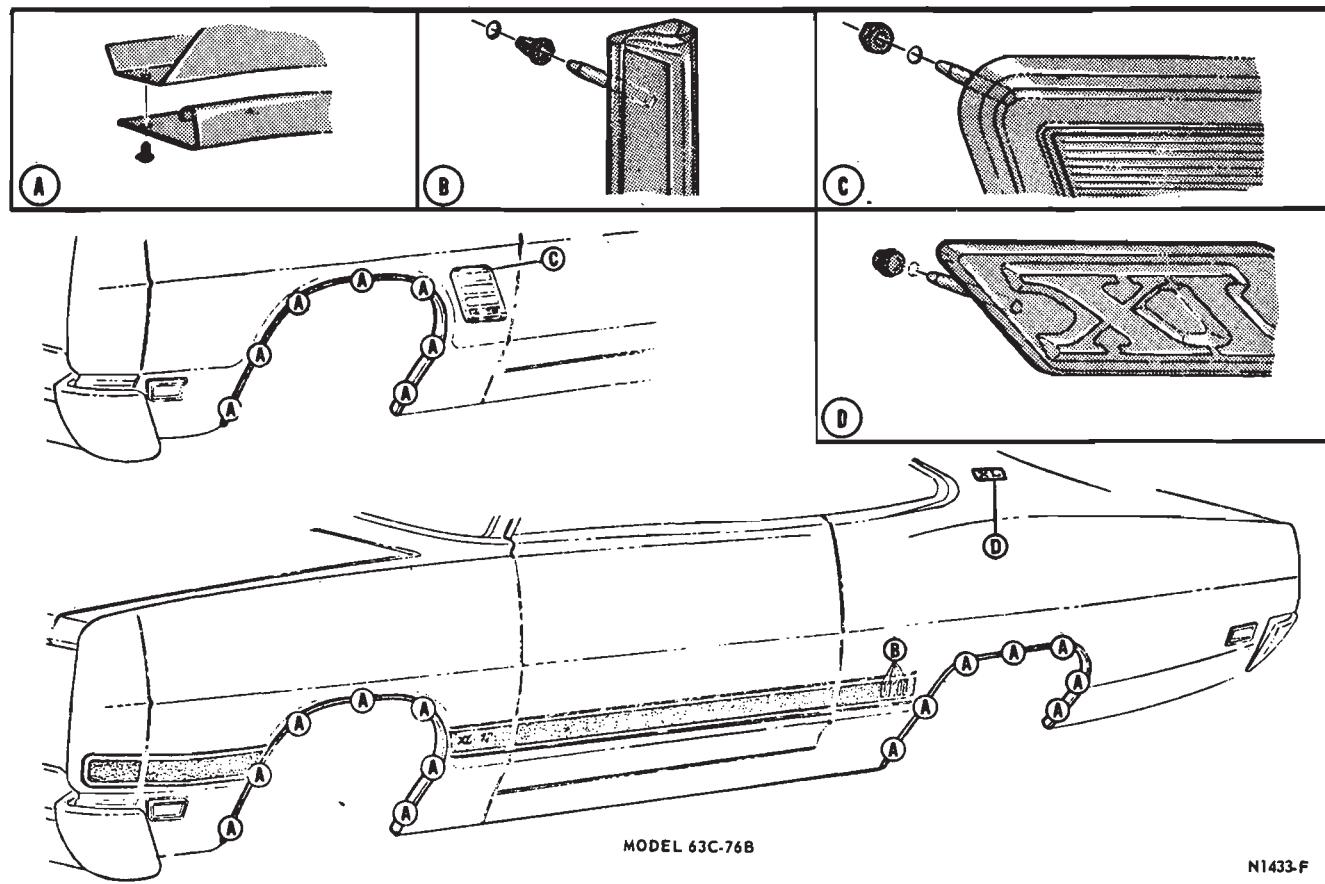
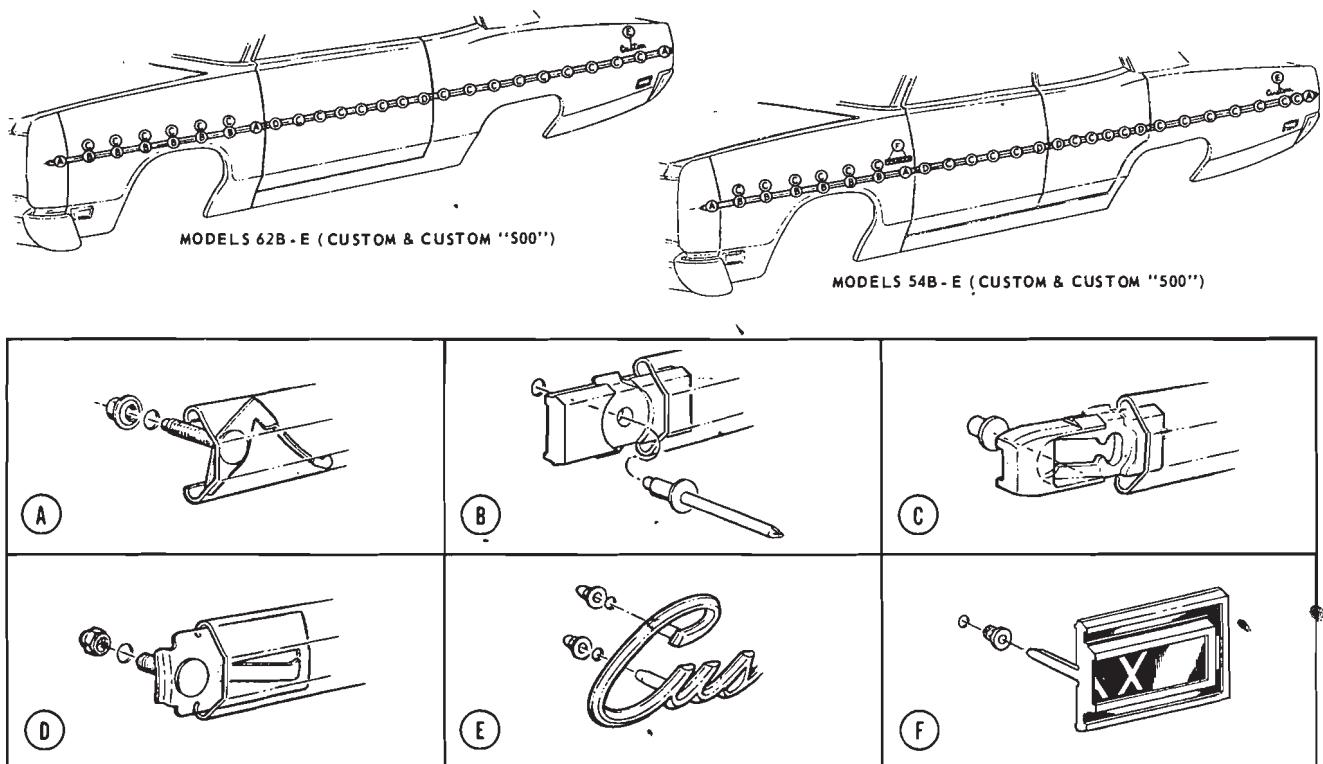
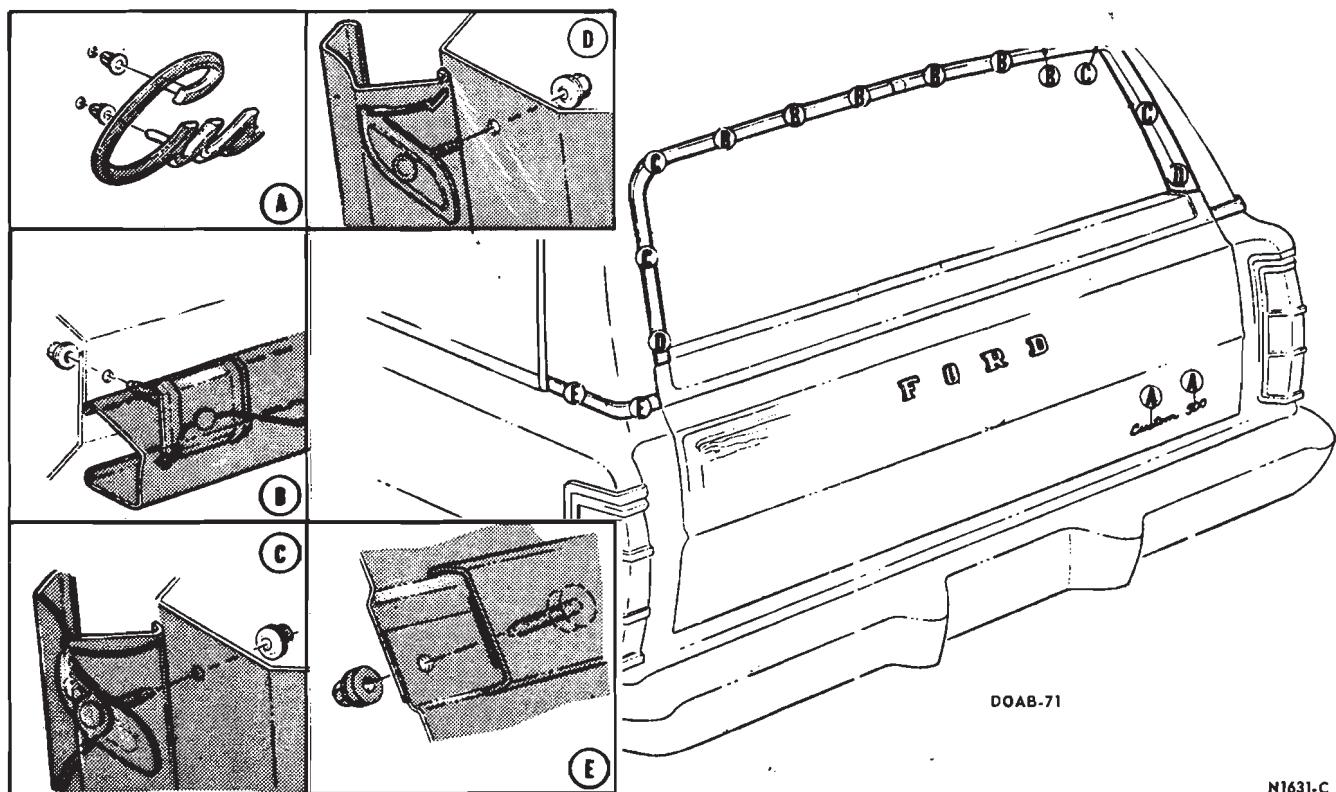


FIG. 32—Ford Exterior Side Moulding Installation



N 1336-G

FIG. 33—Ford Exterior Side and Rear Moulding Installation



N1631-C

FIG. 34—Ford Exterior and Rear Moulding Installation—Model 71

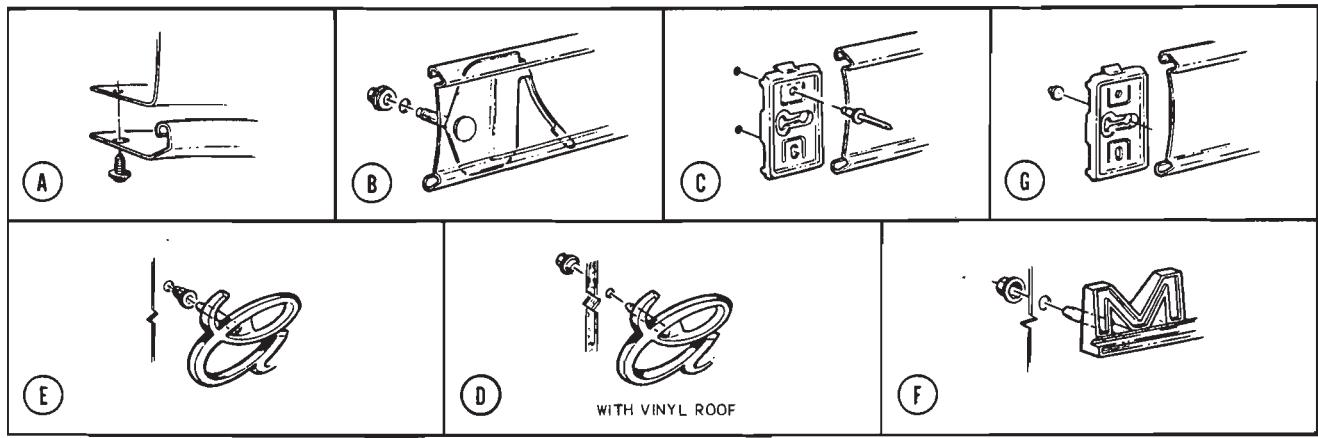
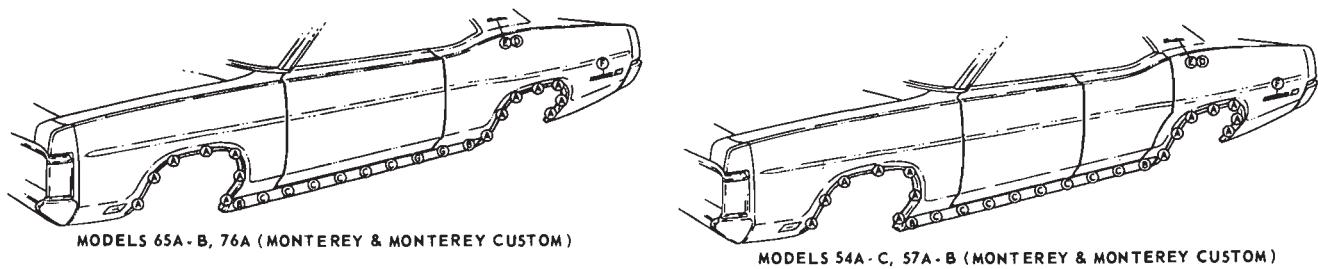
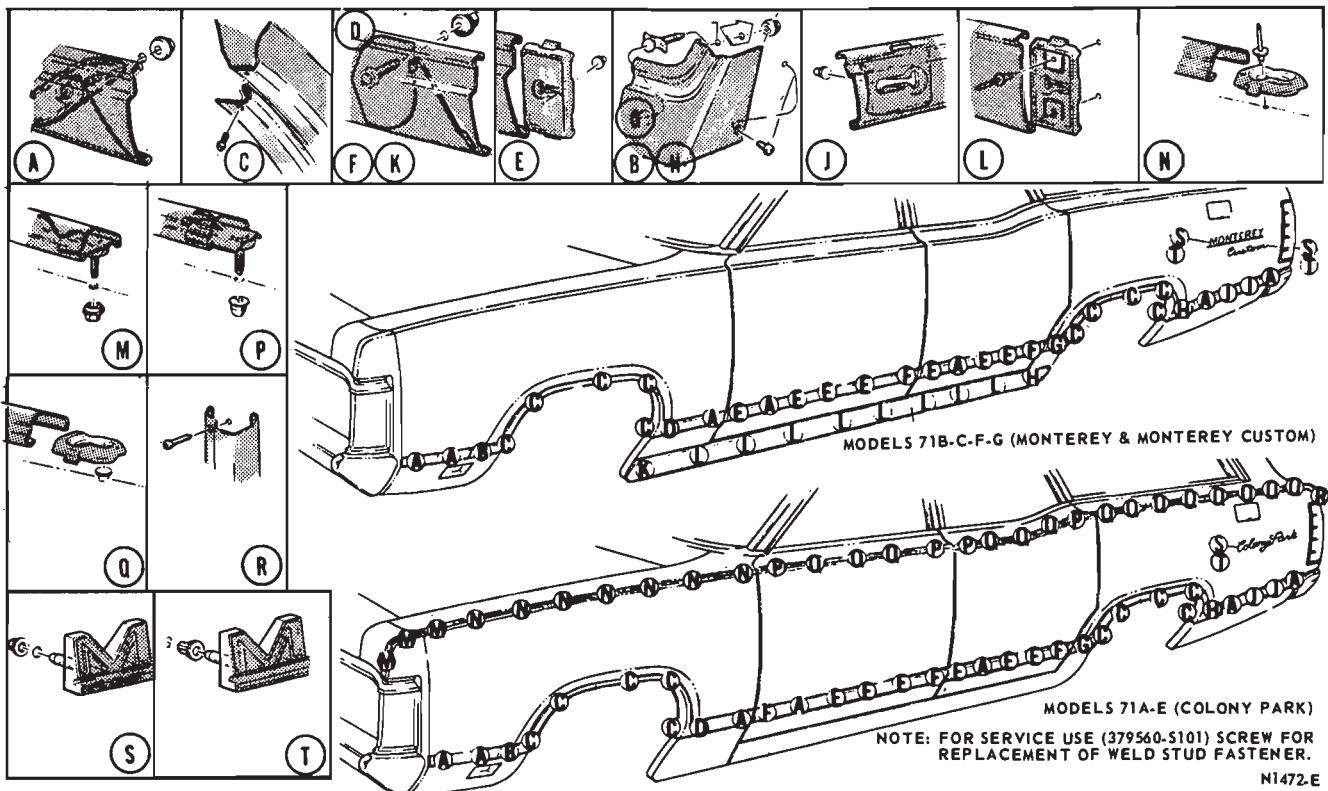


FIG. 36—Mercury Exterior Side Moulding Installation—Models 54A-C, 57A-B, 65A-B, 76A

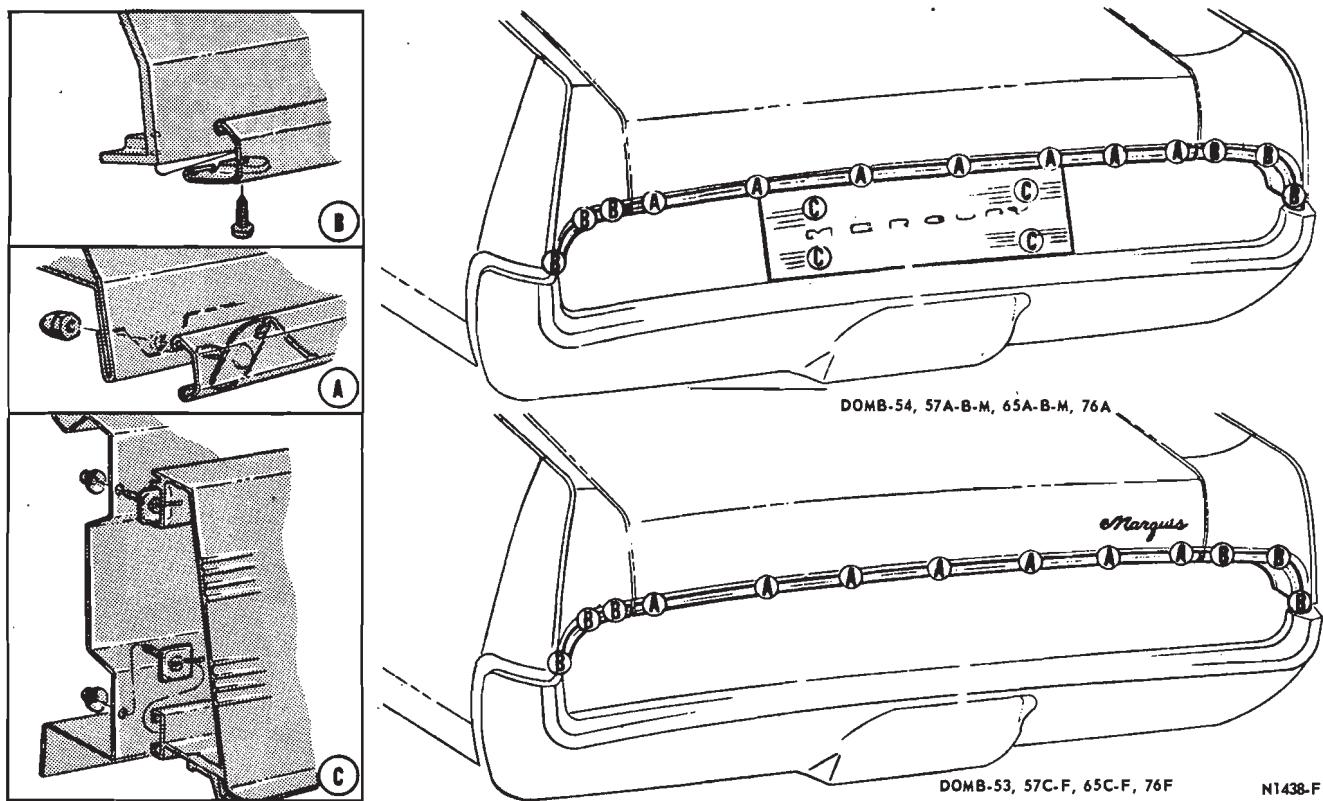


FIG. 37—Mercury Exterior Side and Rear Moulding Installation

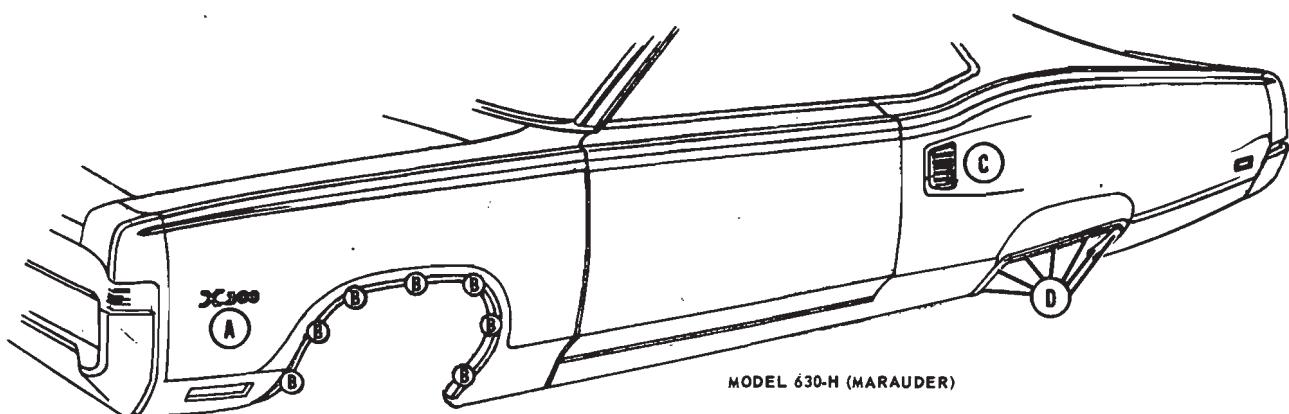
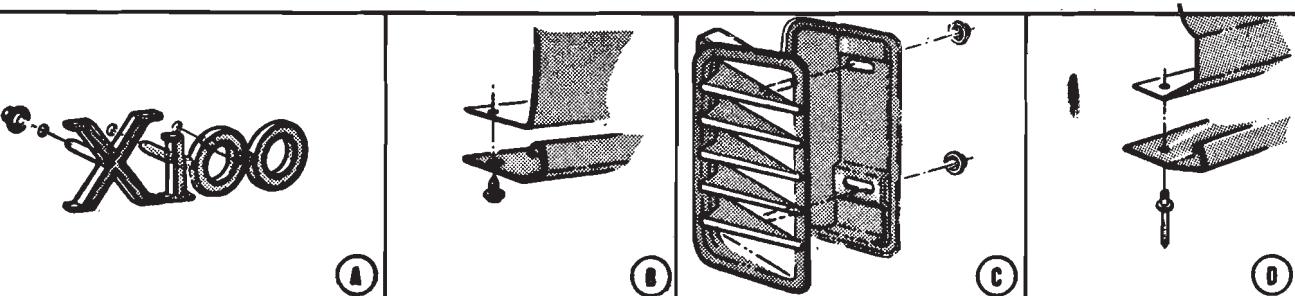
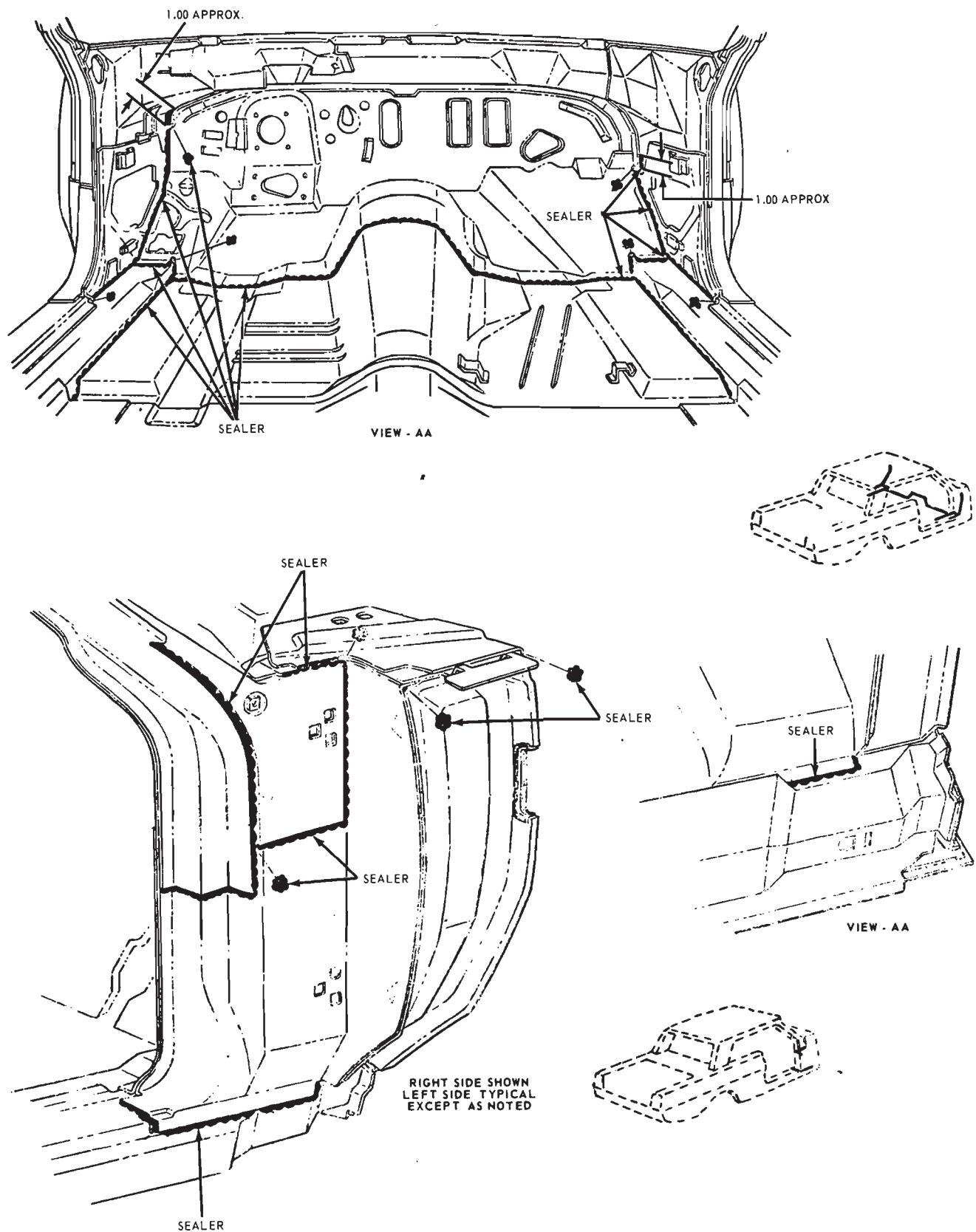


FIG. 38—Mercury Exterior Side Ornamentation—Models 63G and H

N1592-D



N1839-A

FIG. 39—Front Floor Pan, Cowl Side, and Dash Panel Sealer Locations—Lincoln Continental

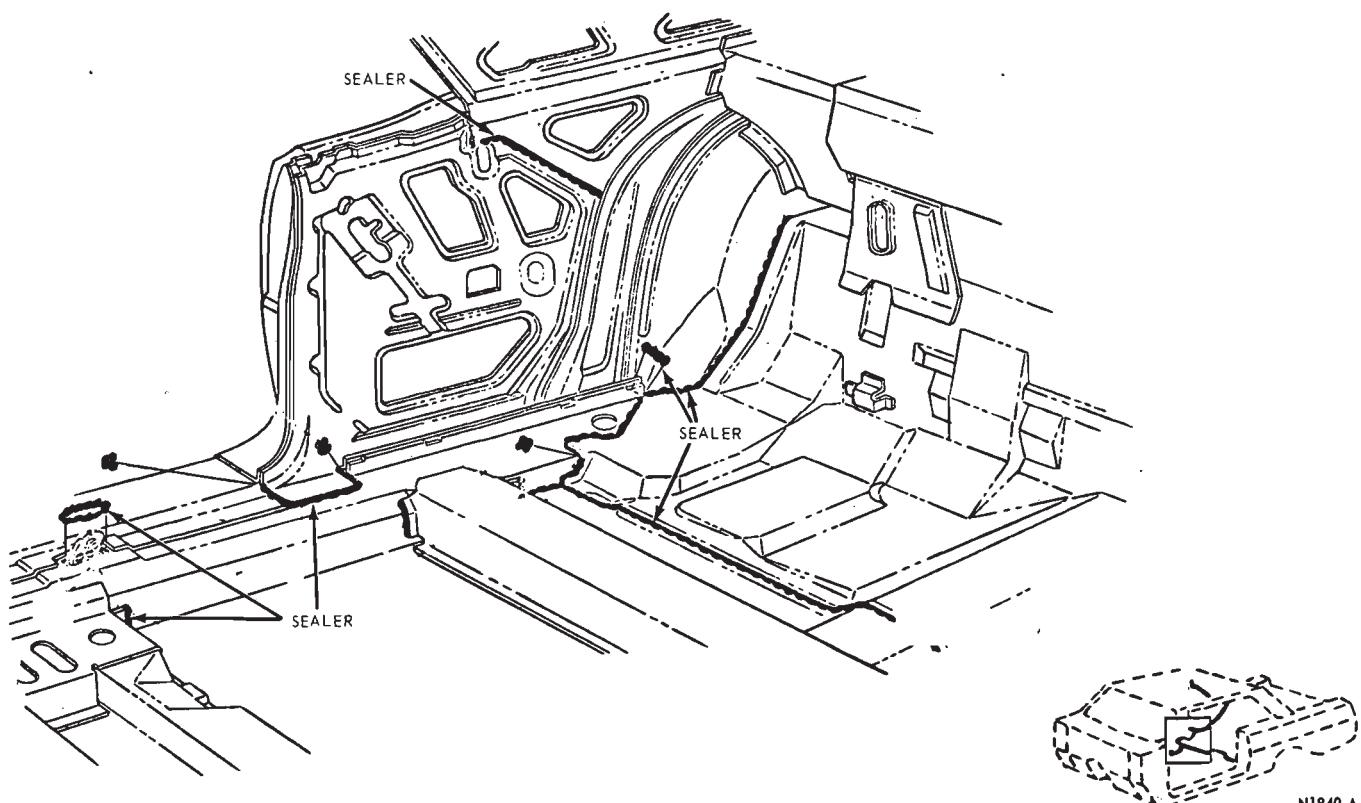
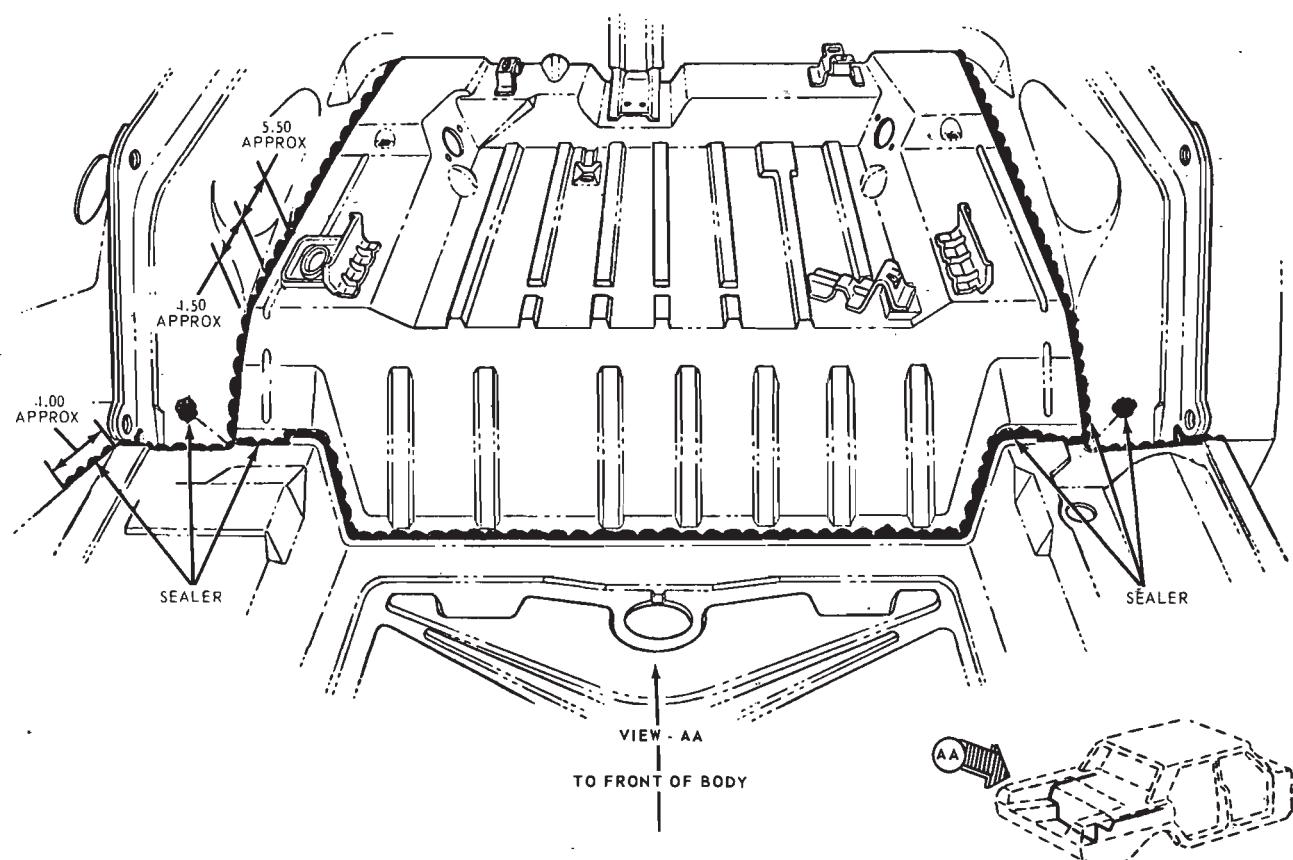
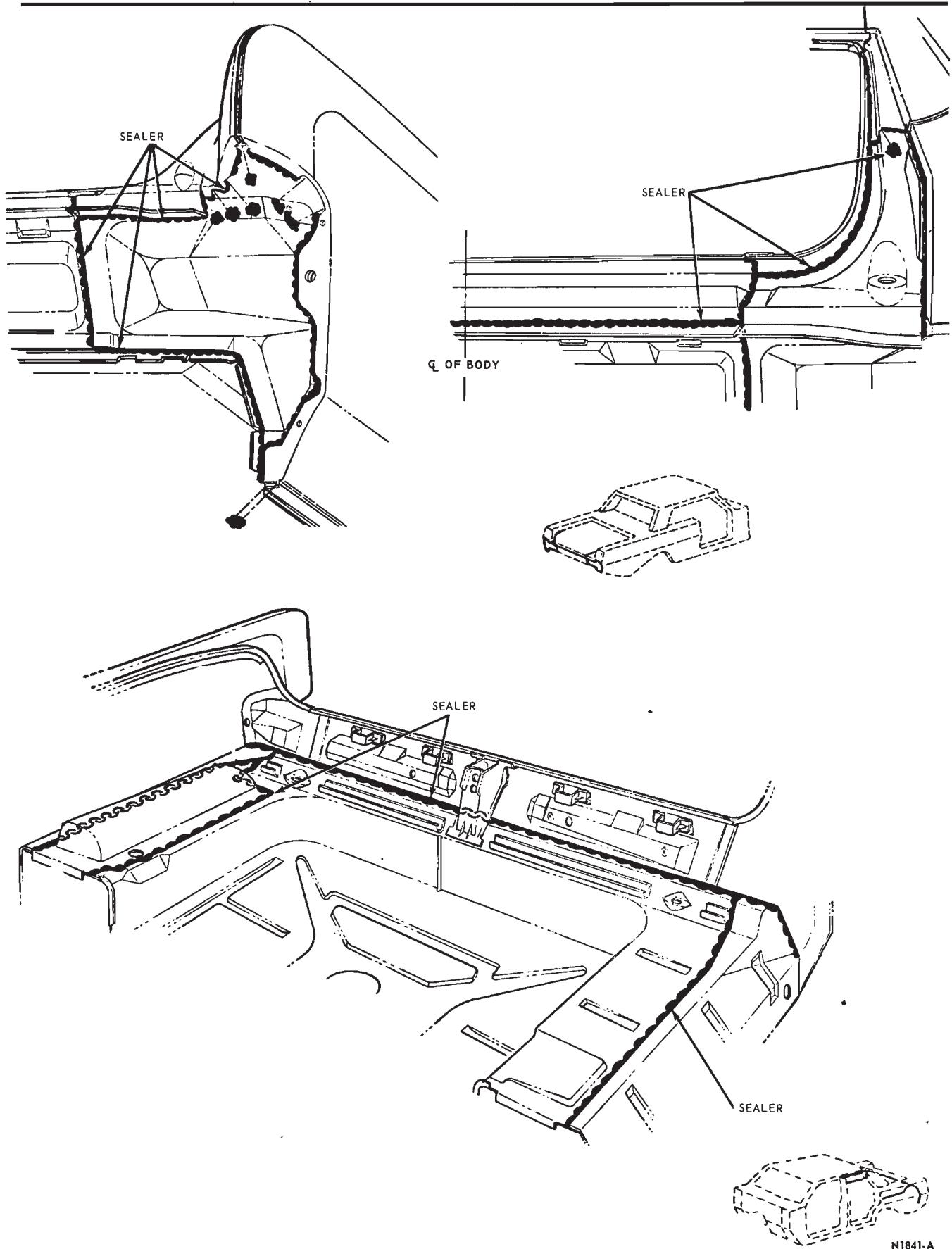


FIG. 40—Center and Rear Floor Pan Sealer Locations—Lincoln Continental

N1840-A



N1841-A

FIG. 41—Rear Floor Pan and Body Rear Sealer Locations—Lincoln Continental

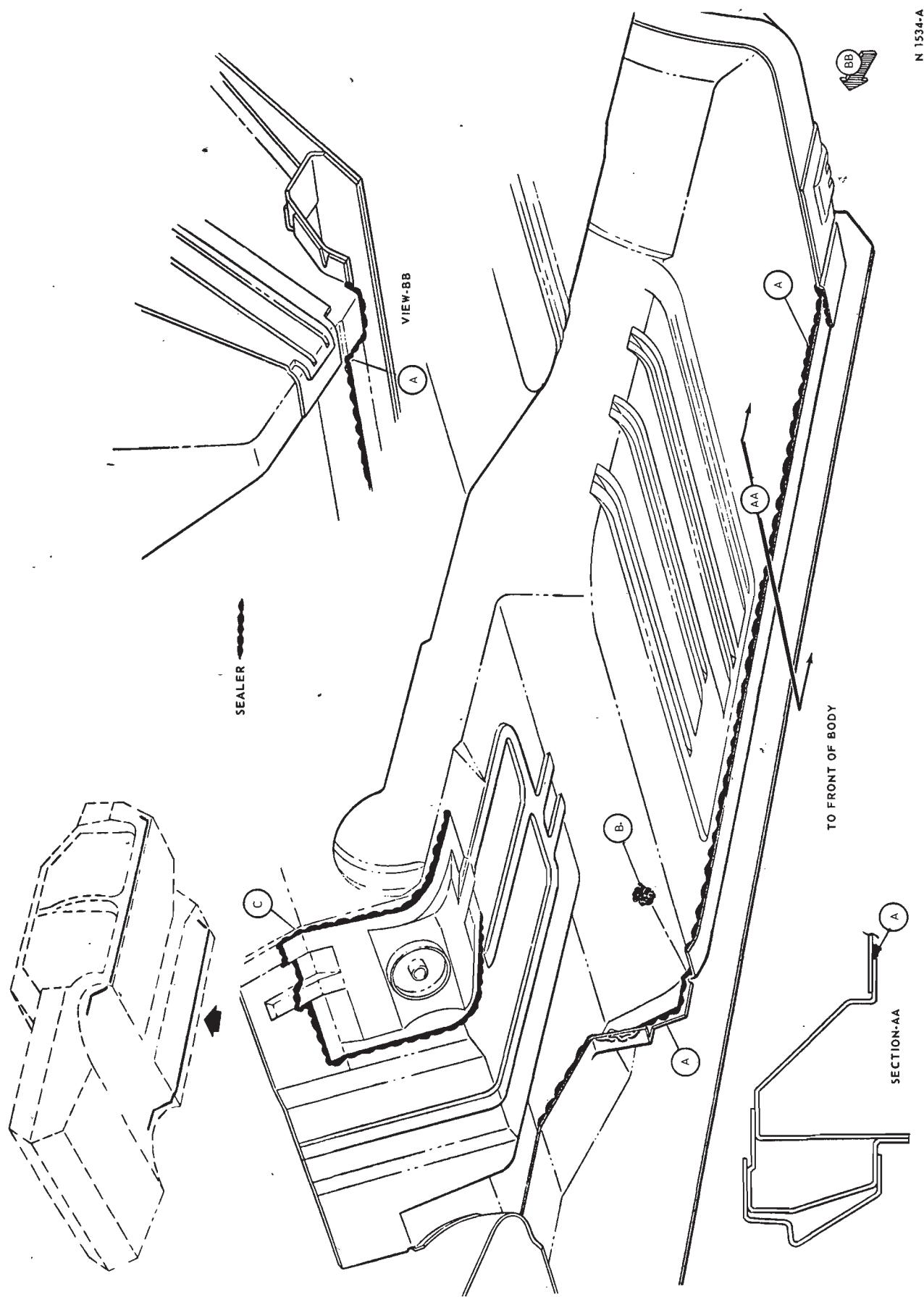


FIG. 42—Underbody Sealer Locations—Thunderbird

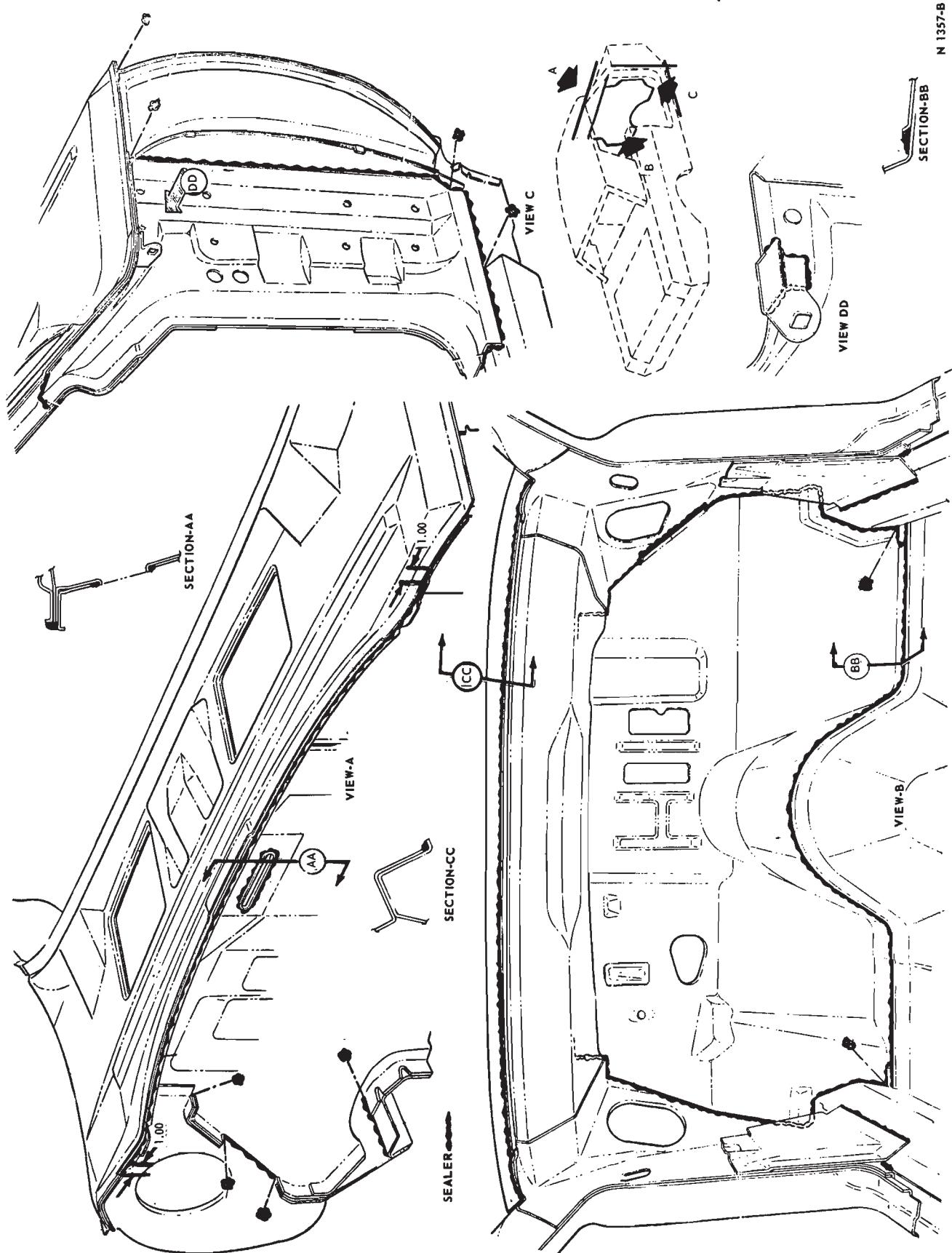


FIG. 43—Cowl Sealer Locations—Thunderbird

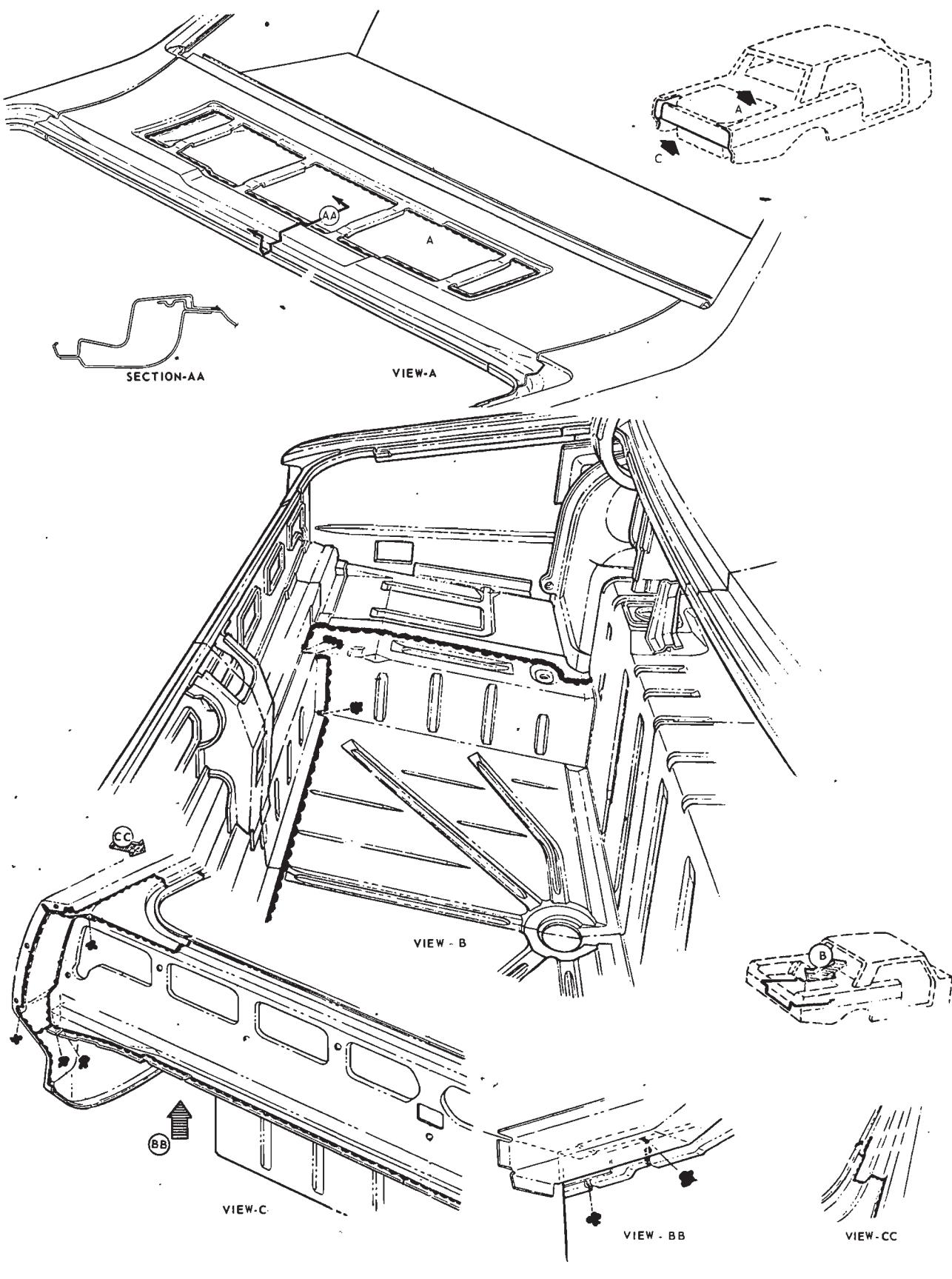


FIG. 44—Body Rear Sealer Locations—Thunderbird

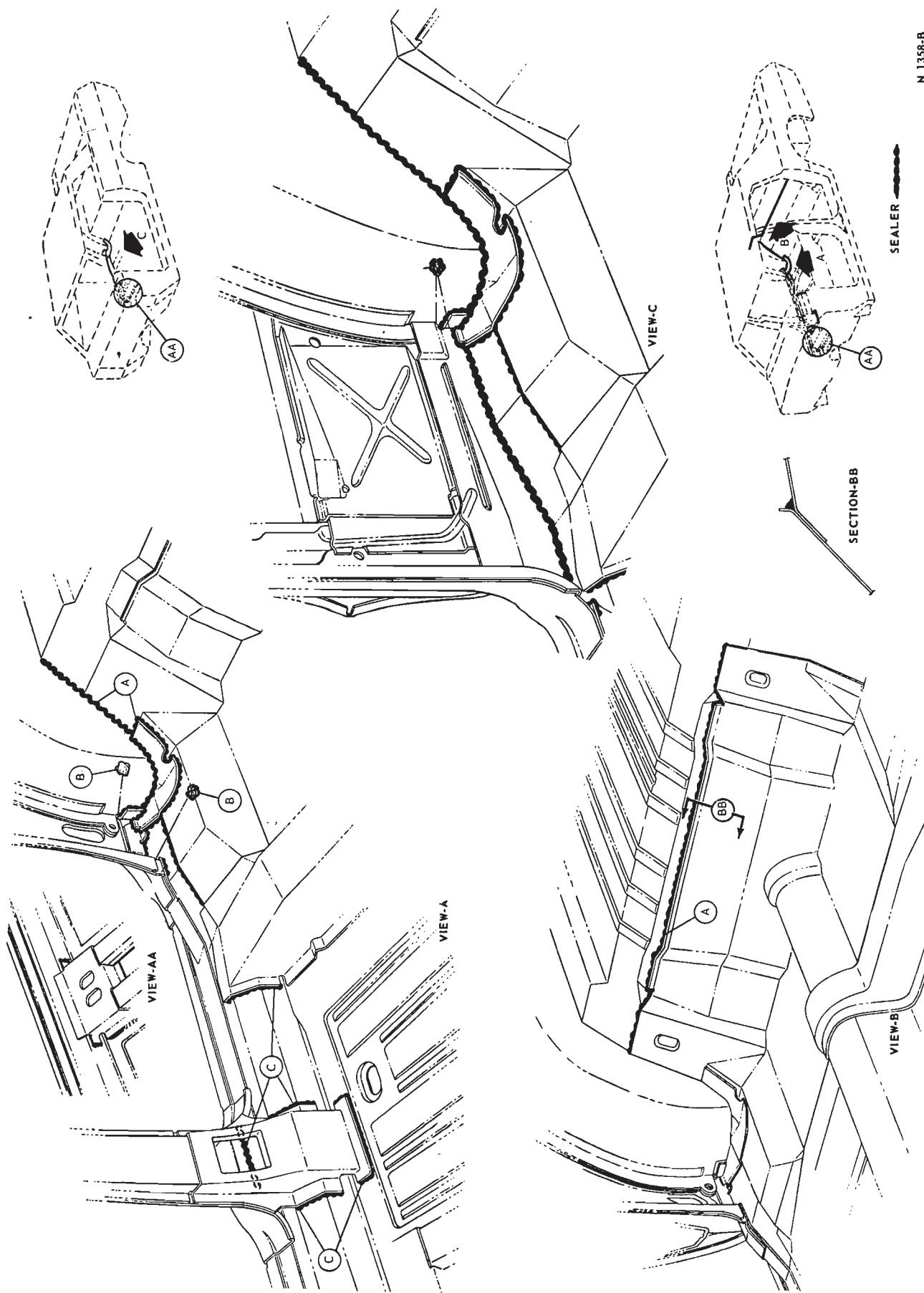


FIG. 45—Body Floor Sealer Locations—Thunderbird

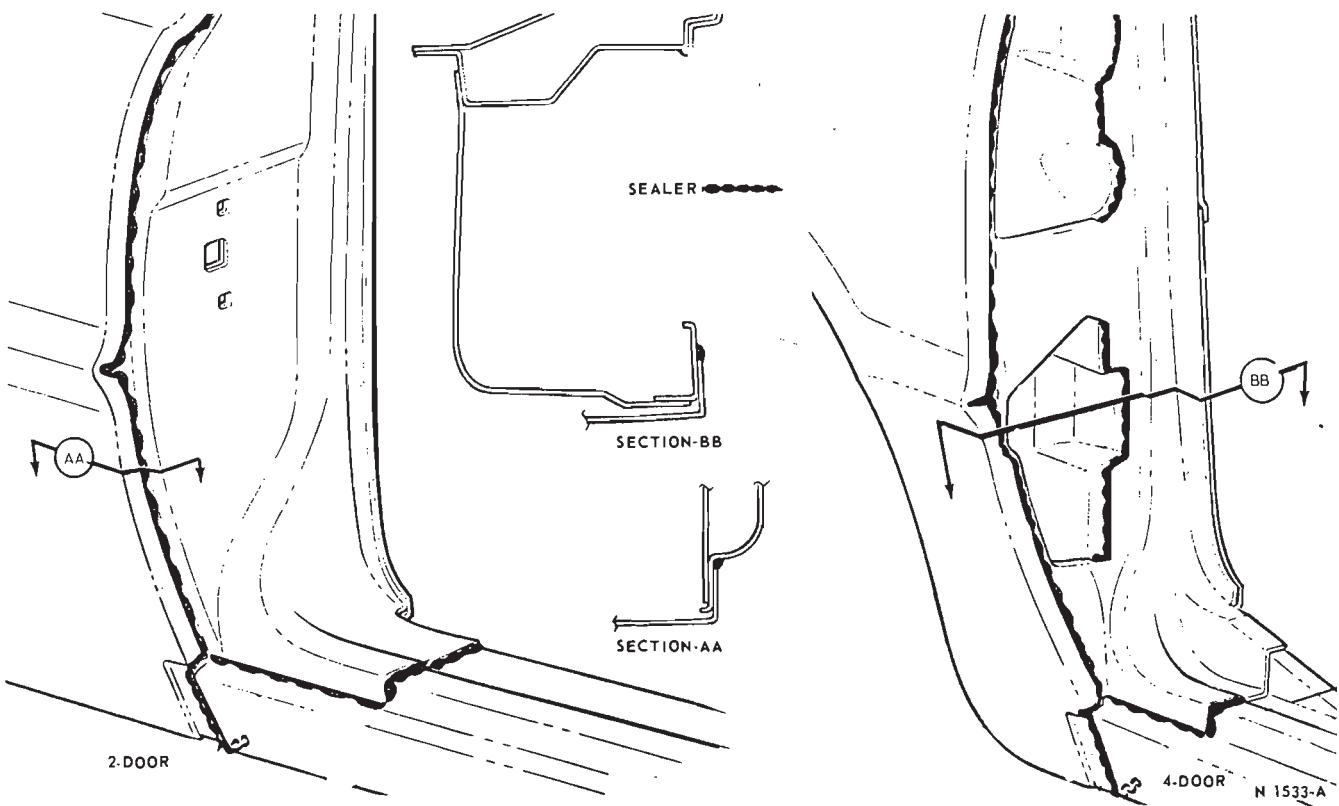


FIG. 46—Body Side Sealer Locations—Thunderbird

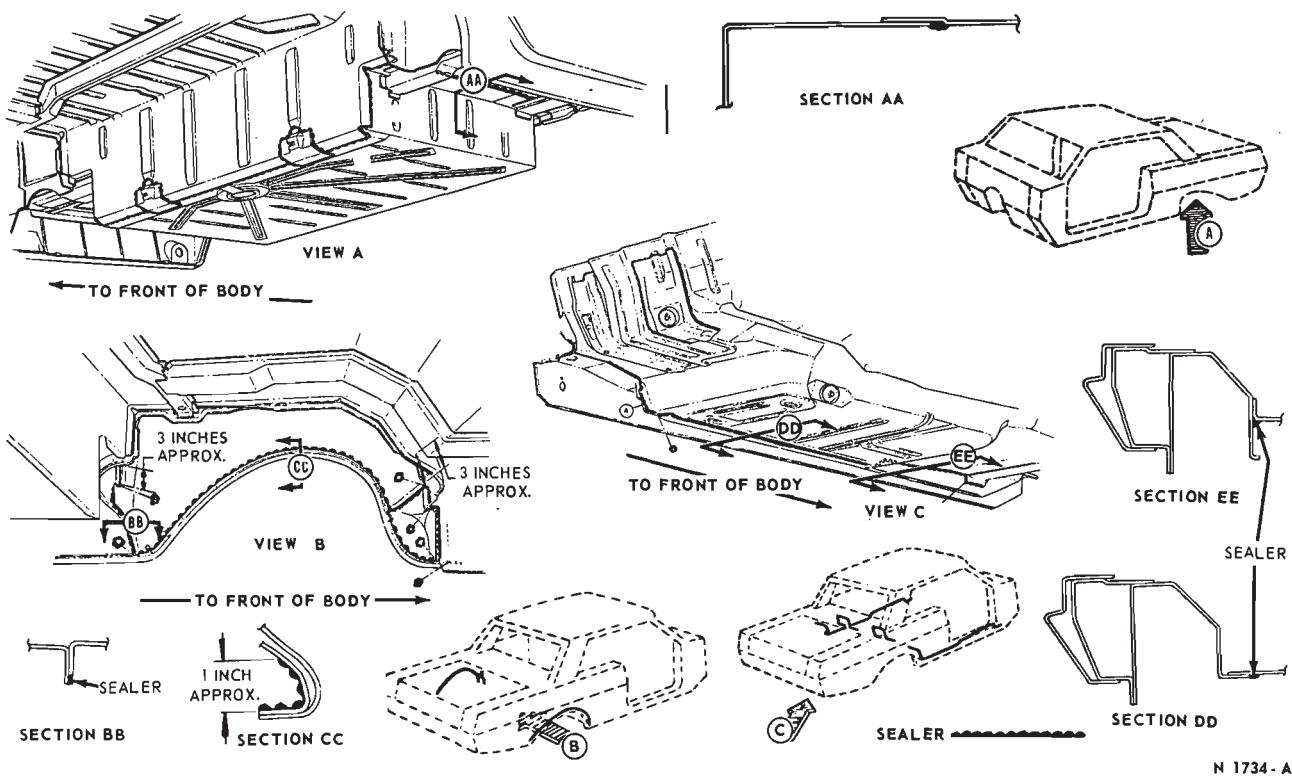
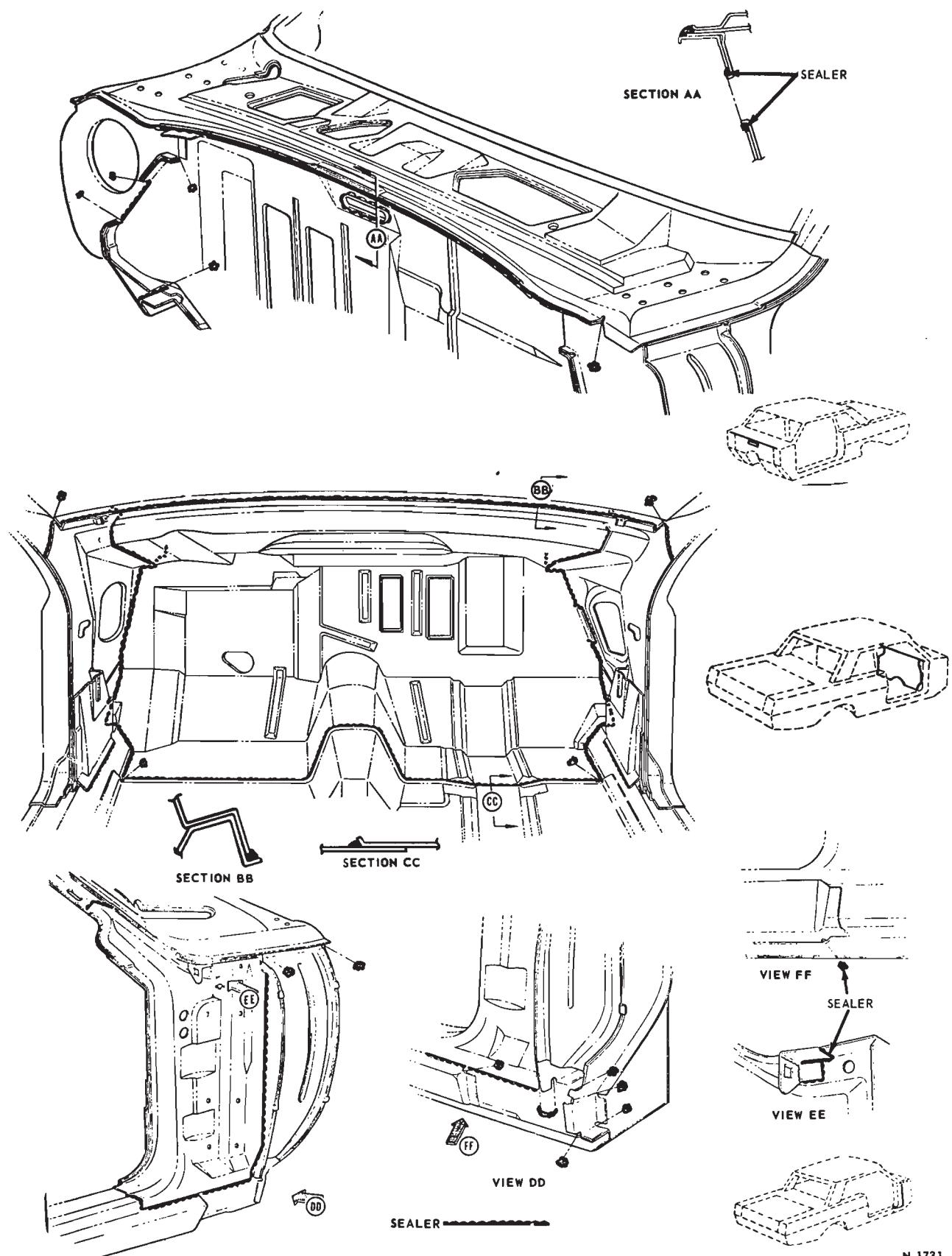
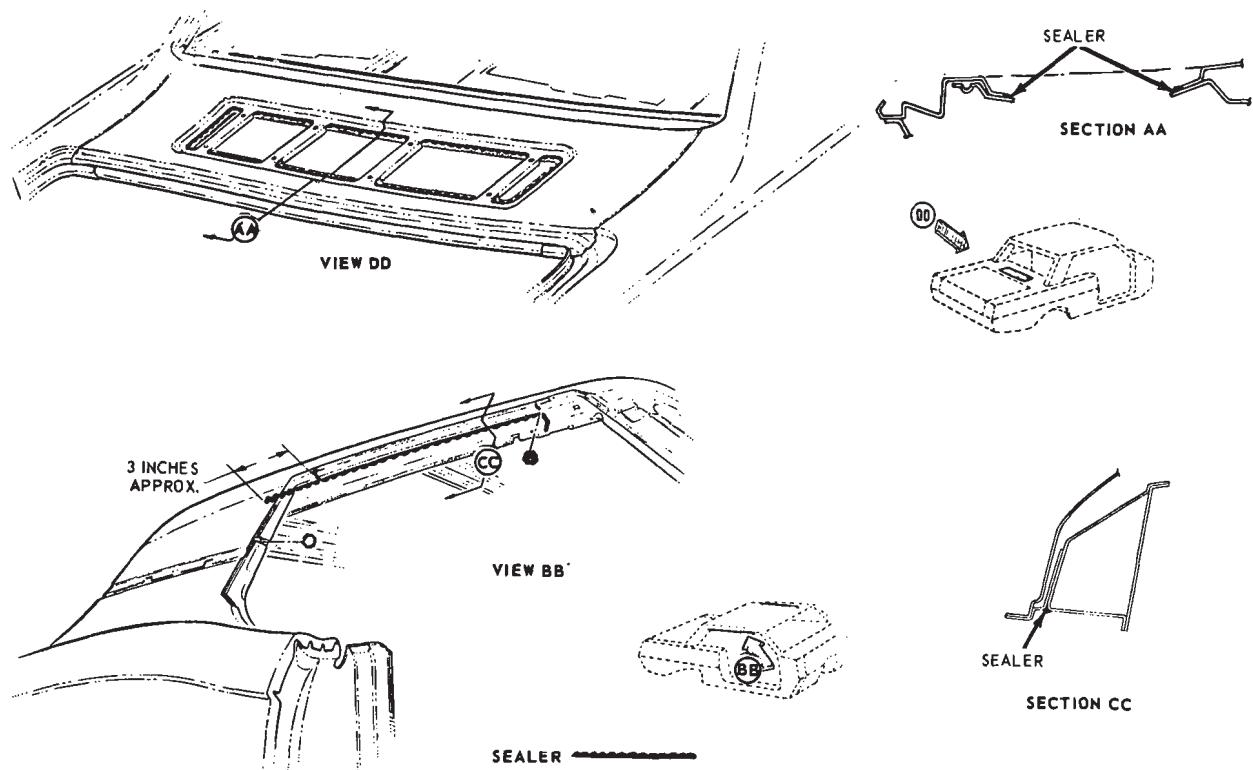


FIG. 47—Underbody Sealer Locations—Continental Mark III



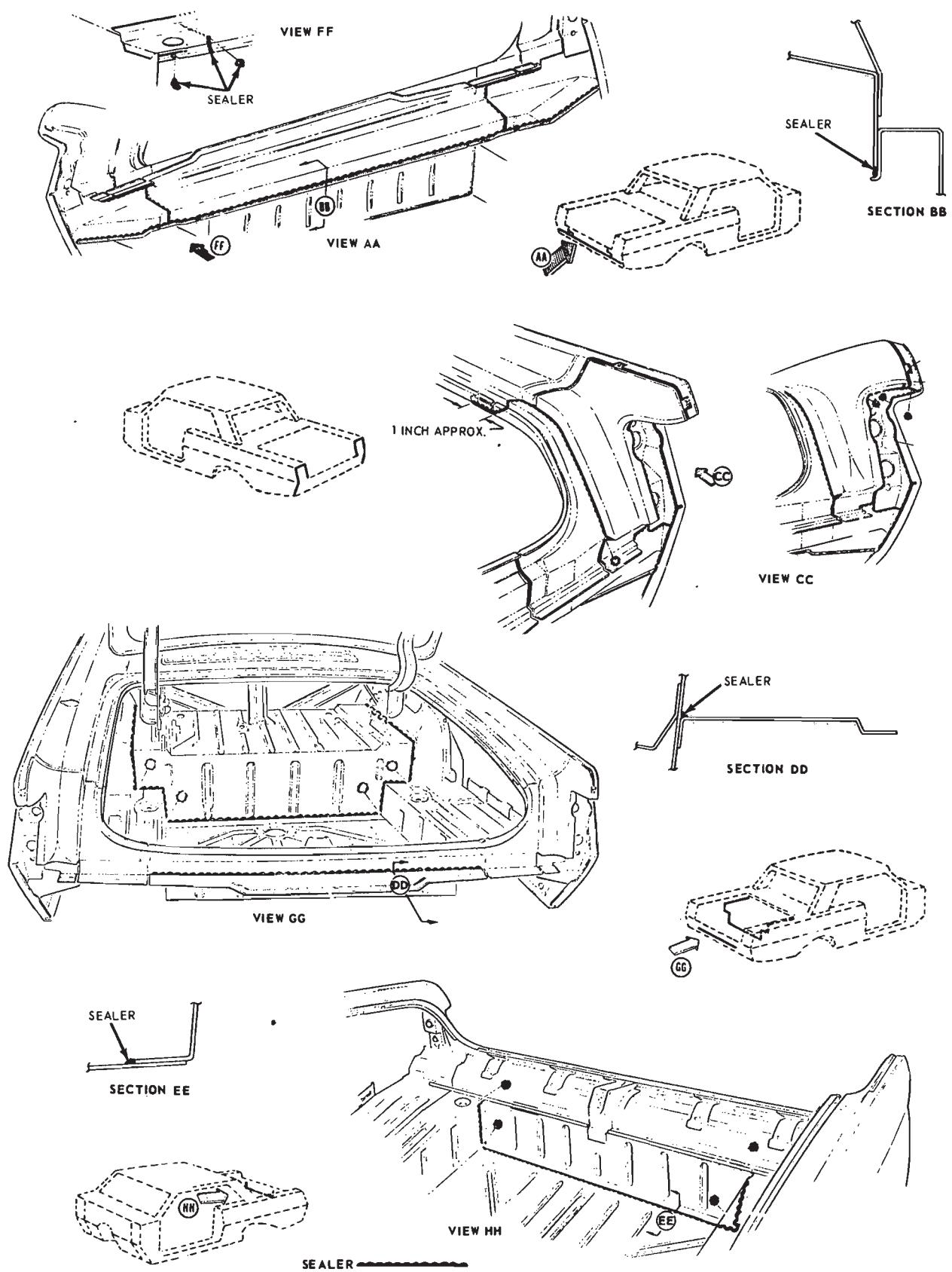
N 1731-A

FIG. 48—Cowl Panel Sealer Locations—Continental Mark III



N 1733-A

FIG. 49—Roof and Upper Back Panel Sealer Locations—Continental Mark III



N1735-B

FIG. 50—Body Rear Sealer Locations—Continental Mark III

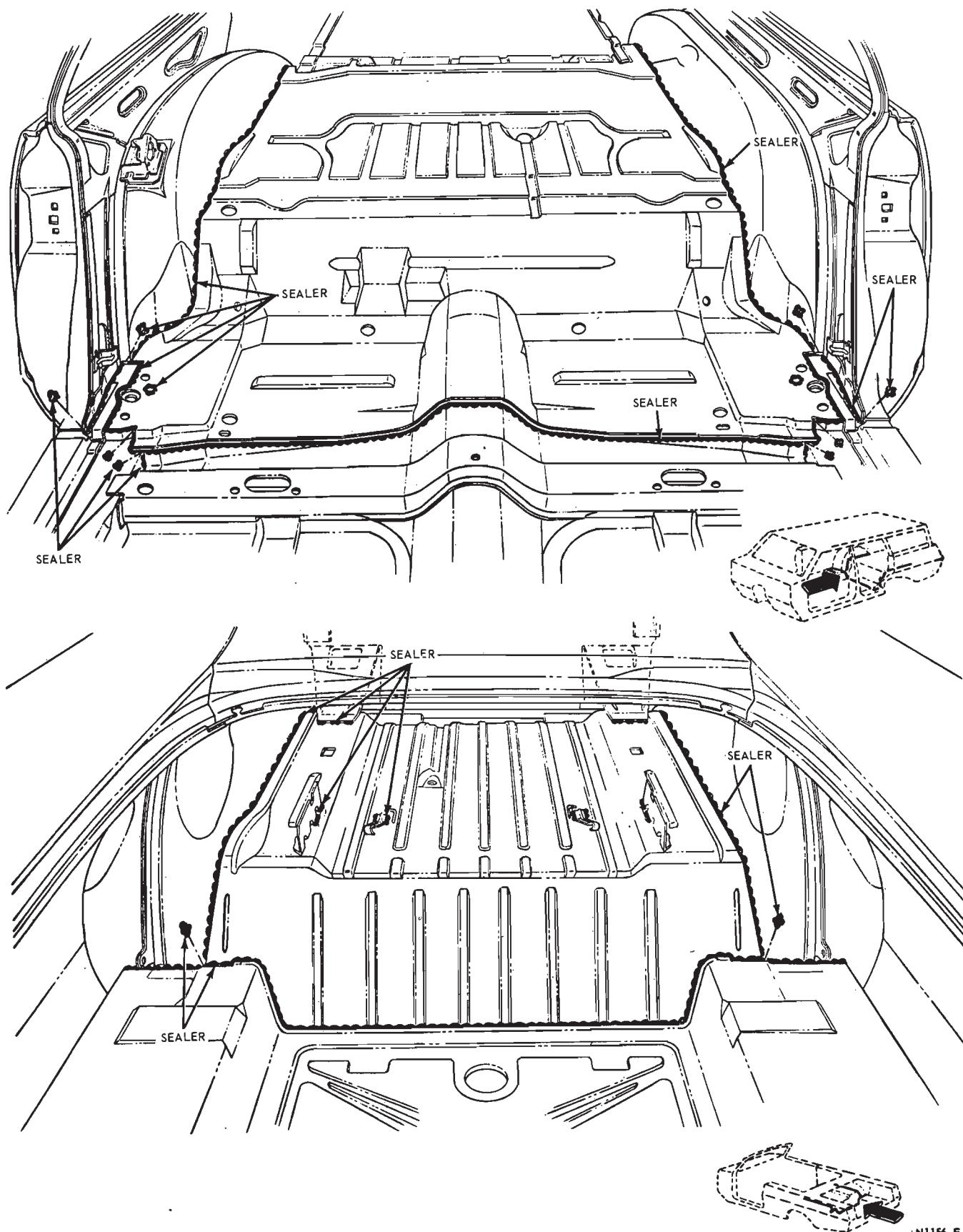


FIG. 51—Floor Pan Sealer Locations—Ford, Mercury and Meteor

N1156-E

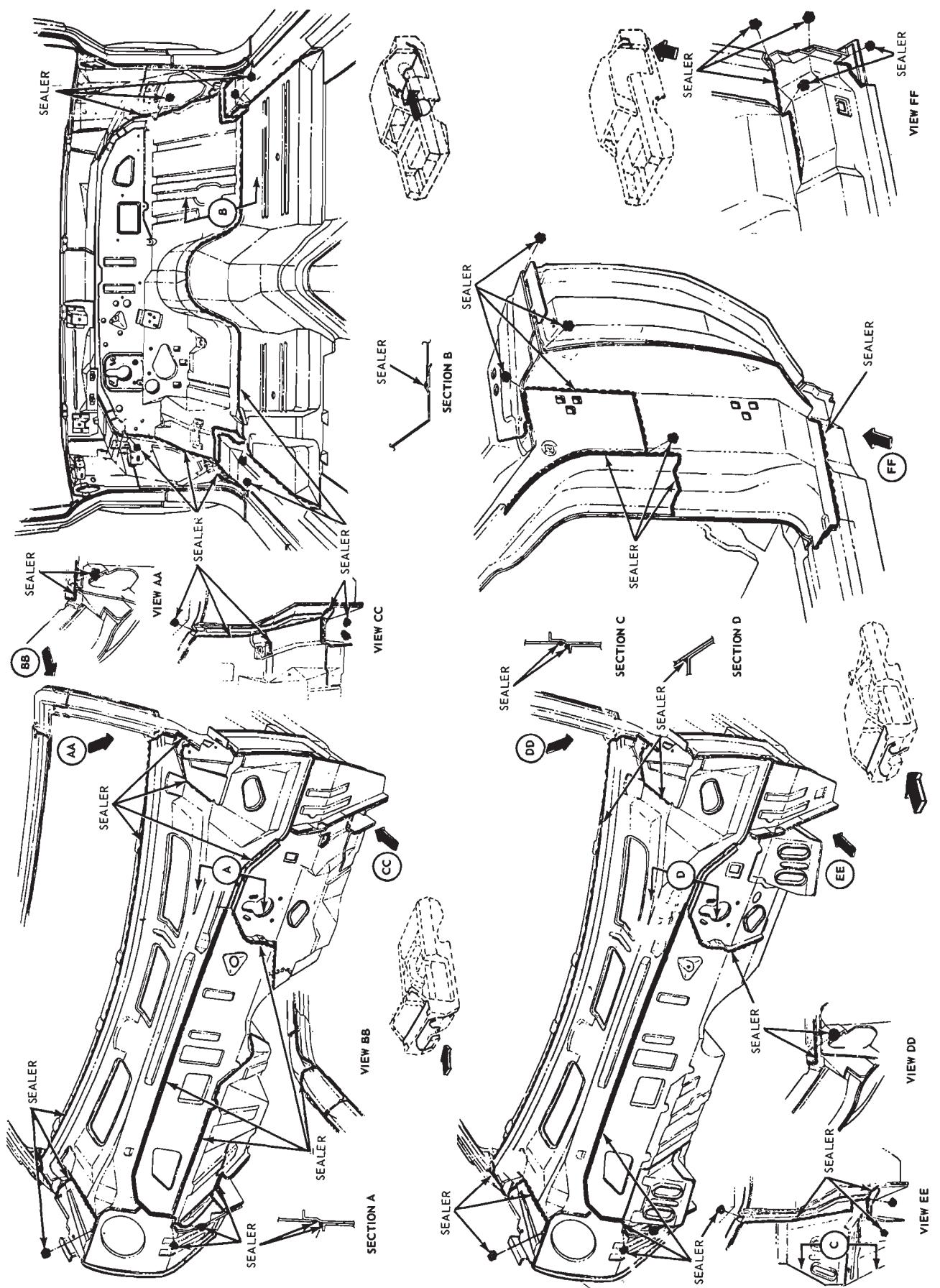


FIG. 52—Dash Panel and Side Cowl Sealer Locations—Ford, Mercury and Meteor

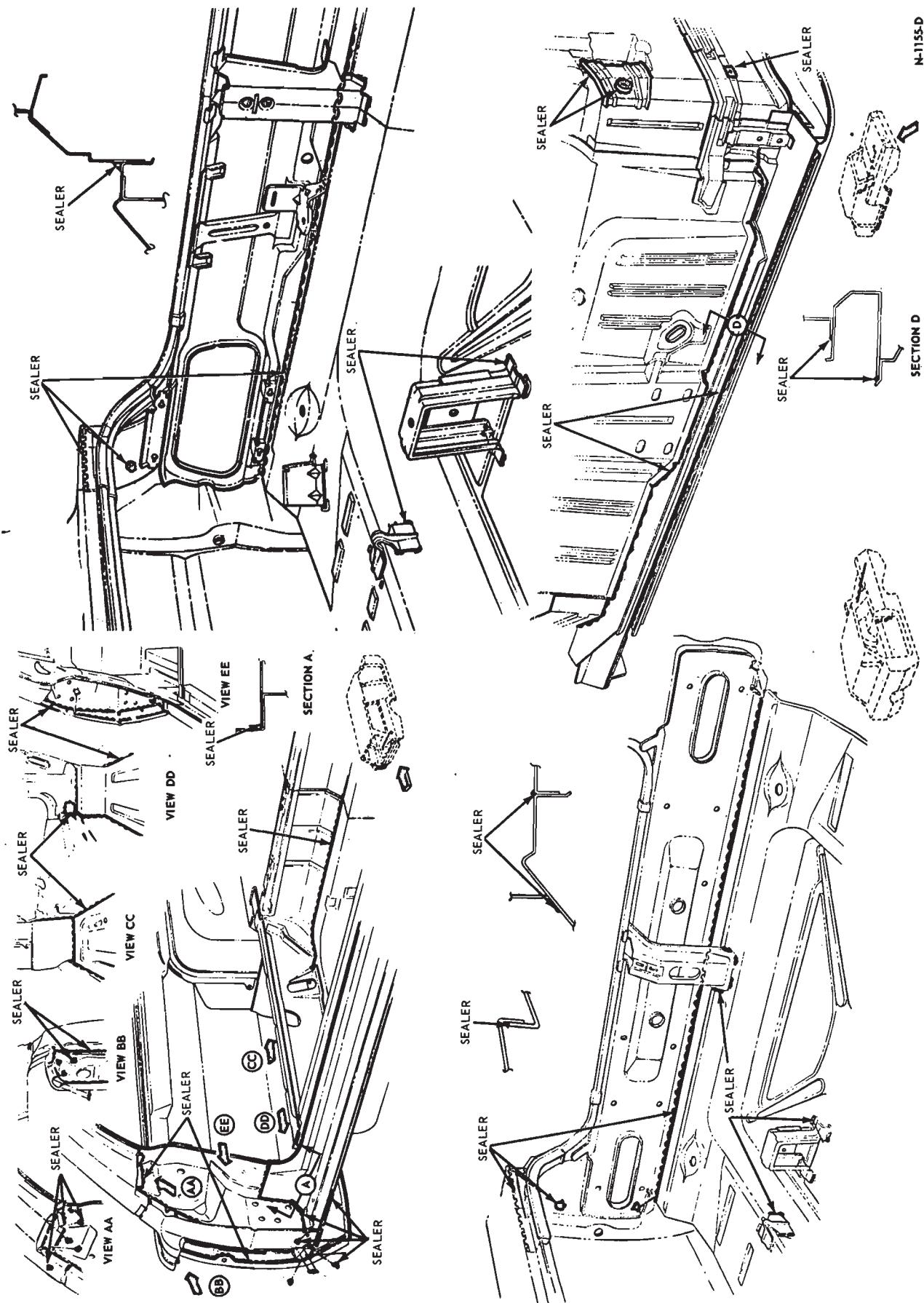


FIG. 53—Body Rear and Underbody Sealer Locations—Ford, Mercury and Meteor

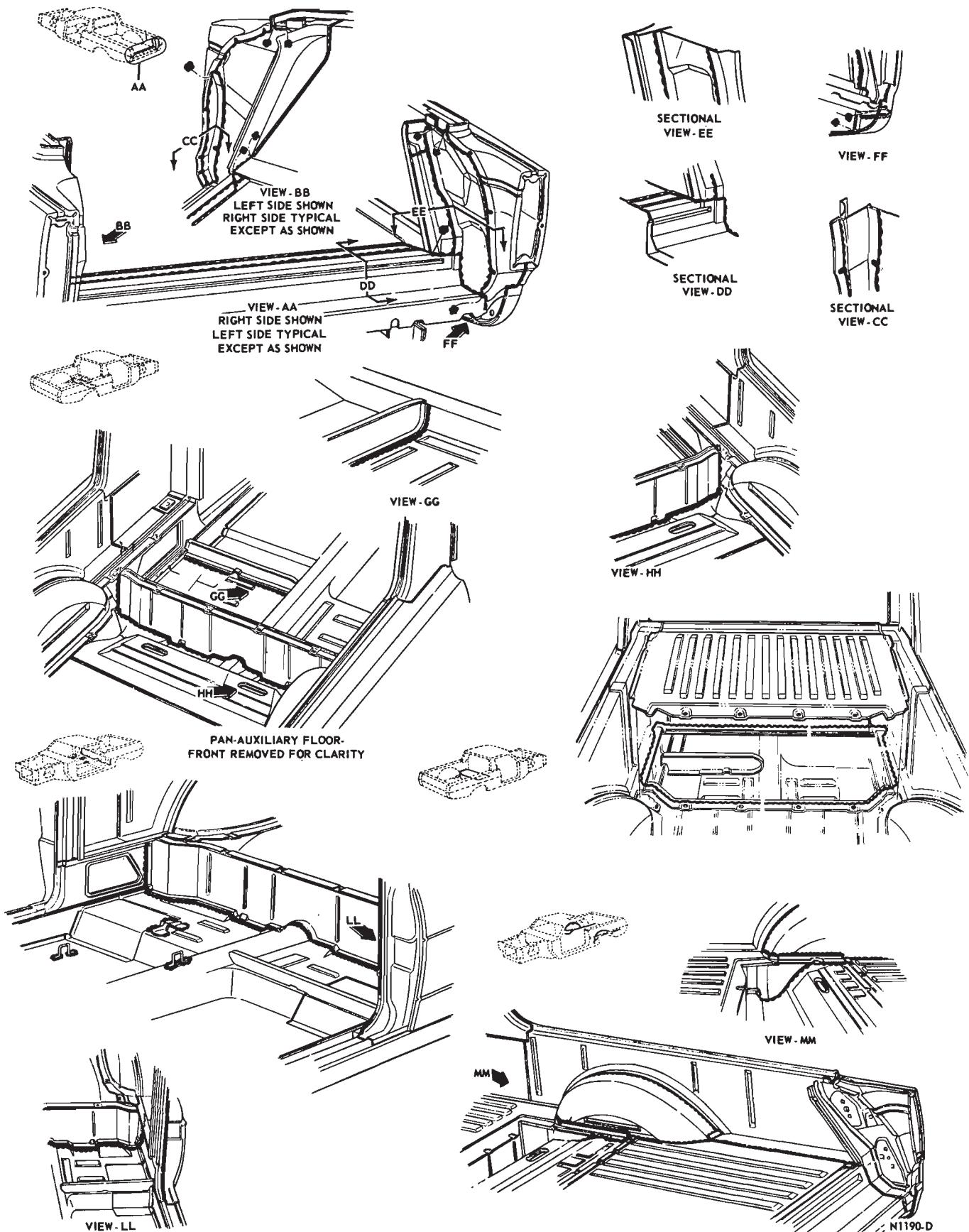


FIG. 54—Ranchero Body Rear Sealer Locations

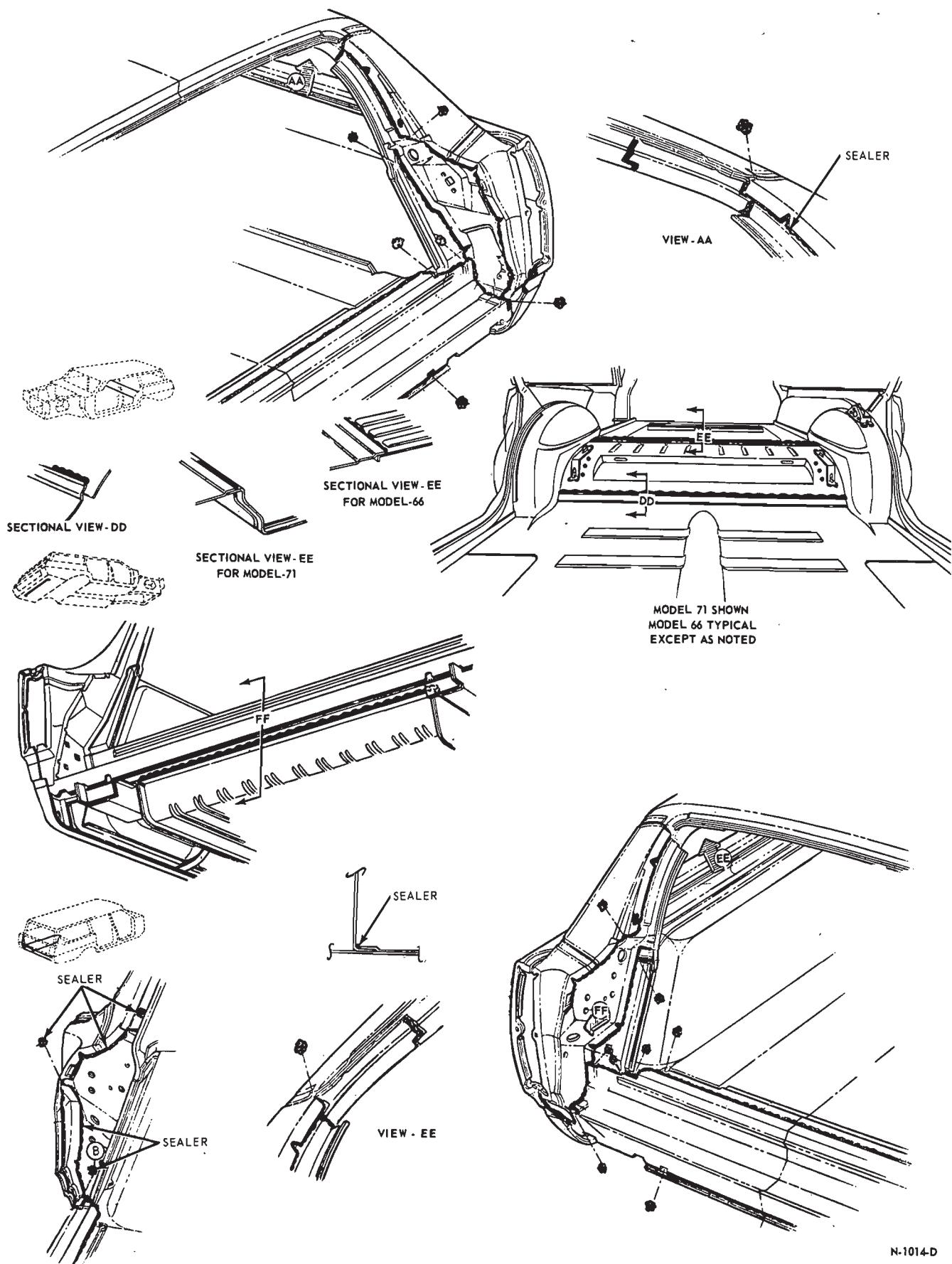


FIG. 55—Station Wagon Body Rear Sealer Locations—Falcon, Fairlane and Montego

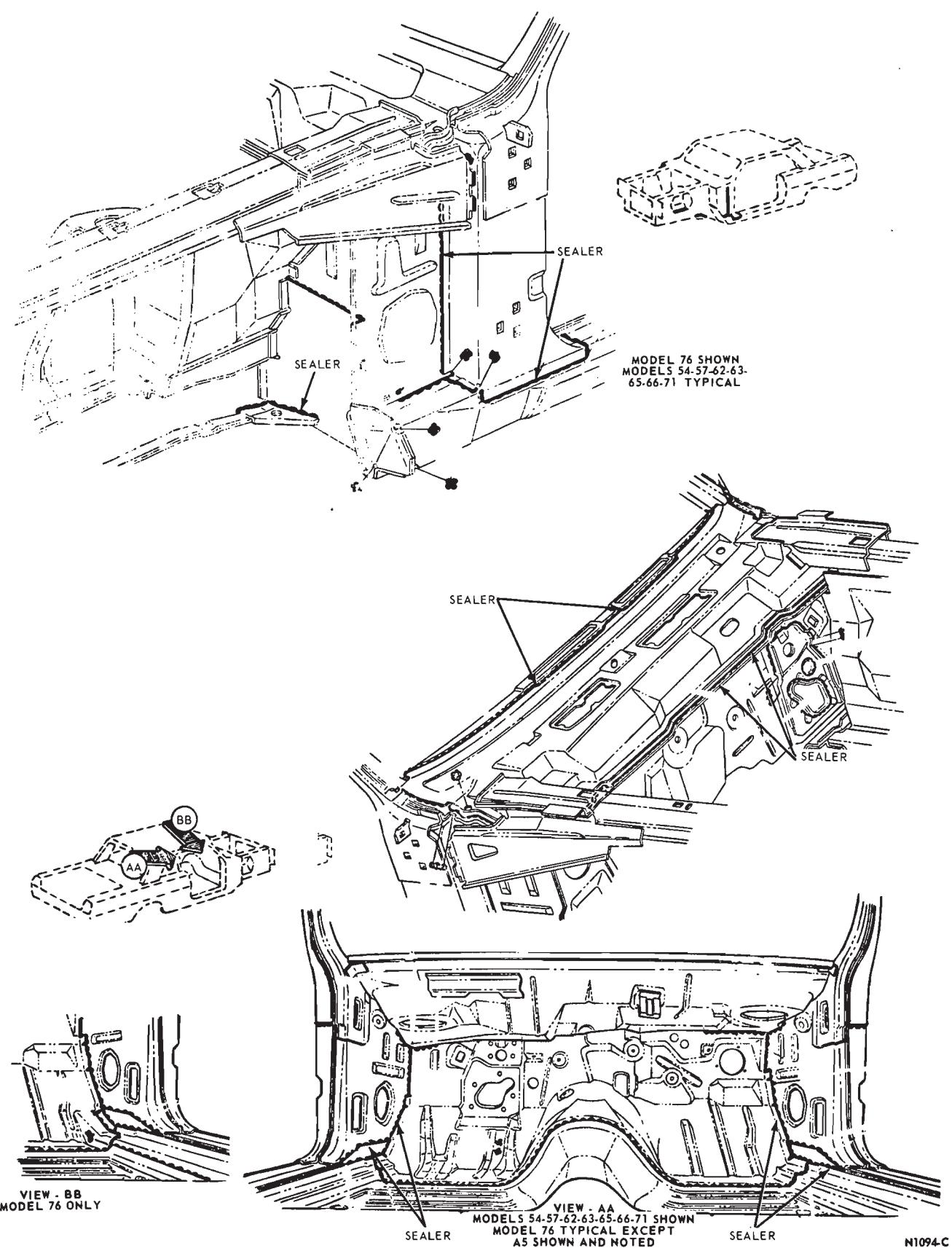


FIG. 56—Cowl and Dash Panel Sealer Locations—Falcon, Fairlane and Montego

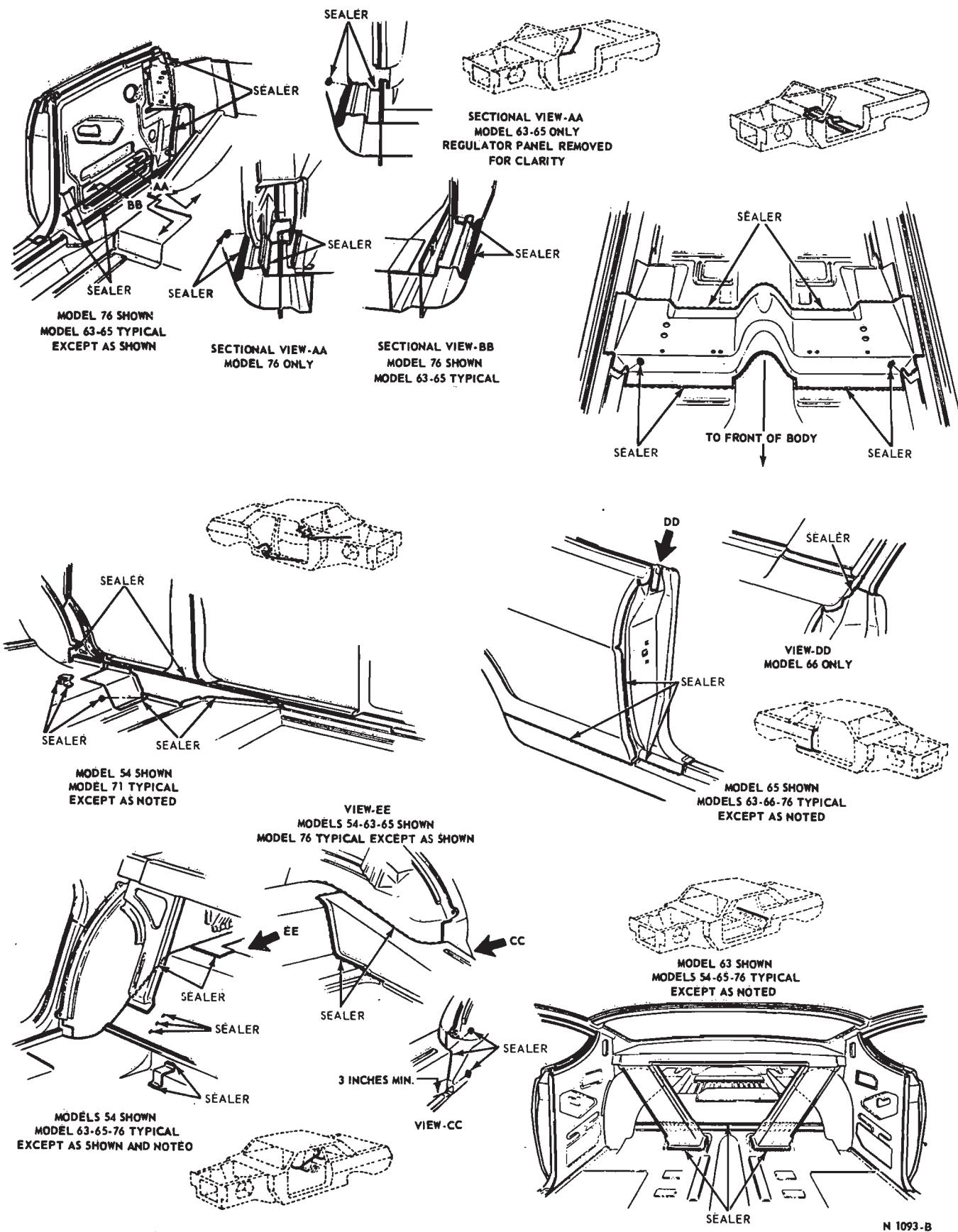
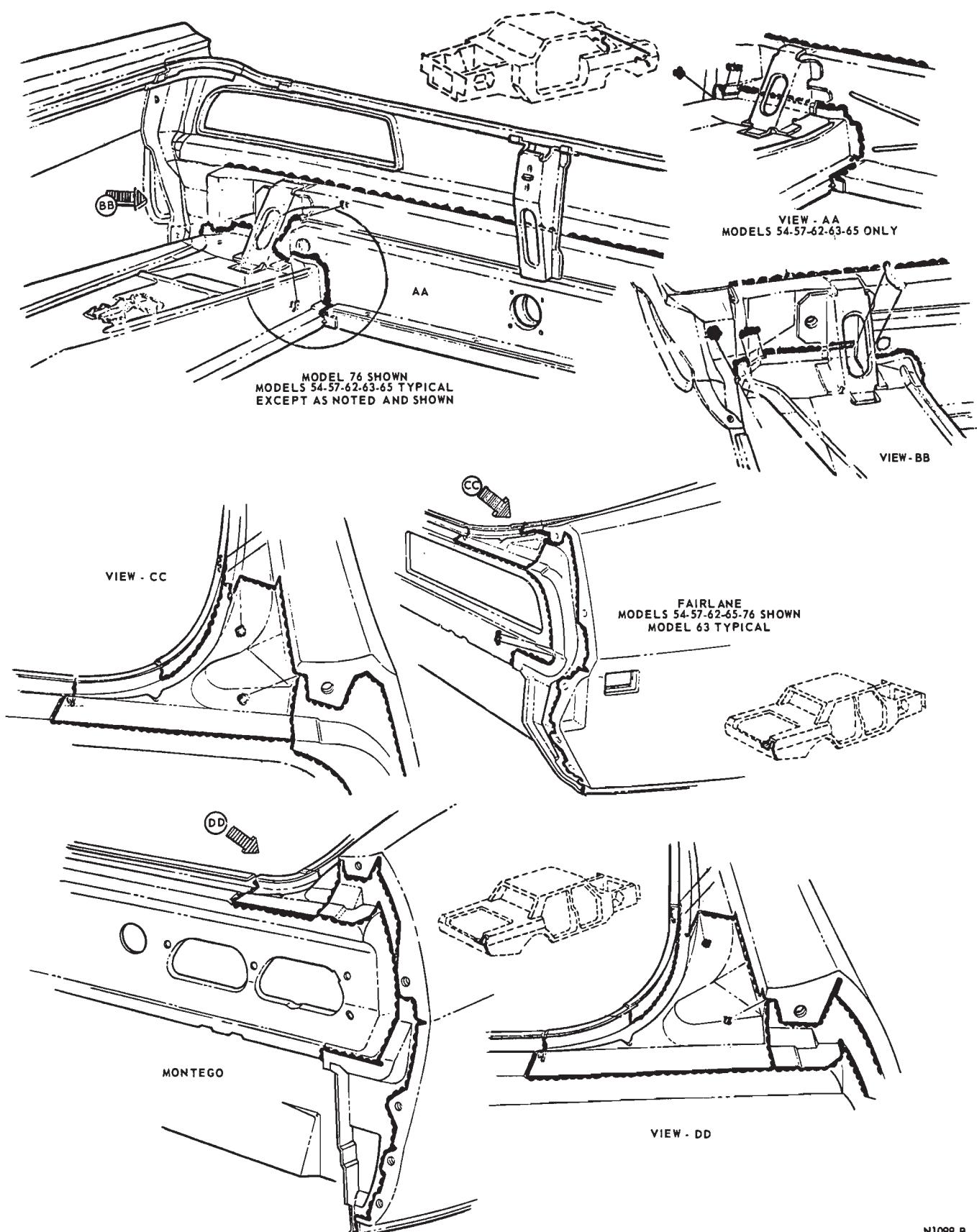


FIG. 57—Body Side and Floor Sealer Locations—Falcon, Fairlane and Montego



N1099.B

FIG. 58—Body Rear Sealer Locations—Falcon, Fairlane and Montego

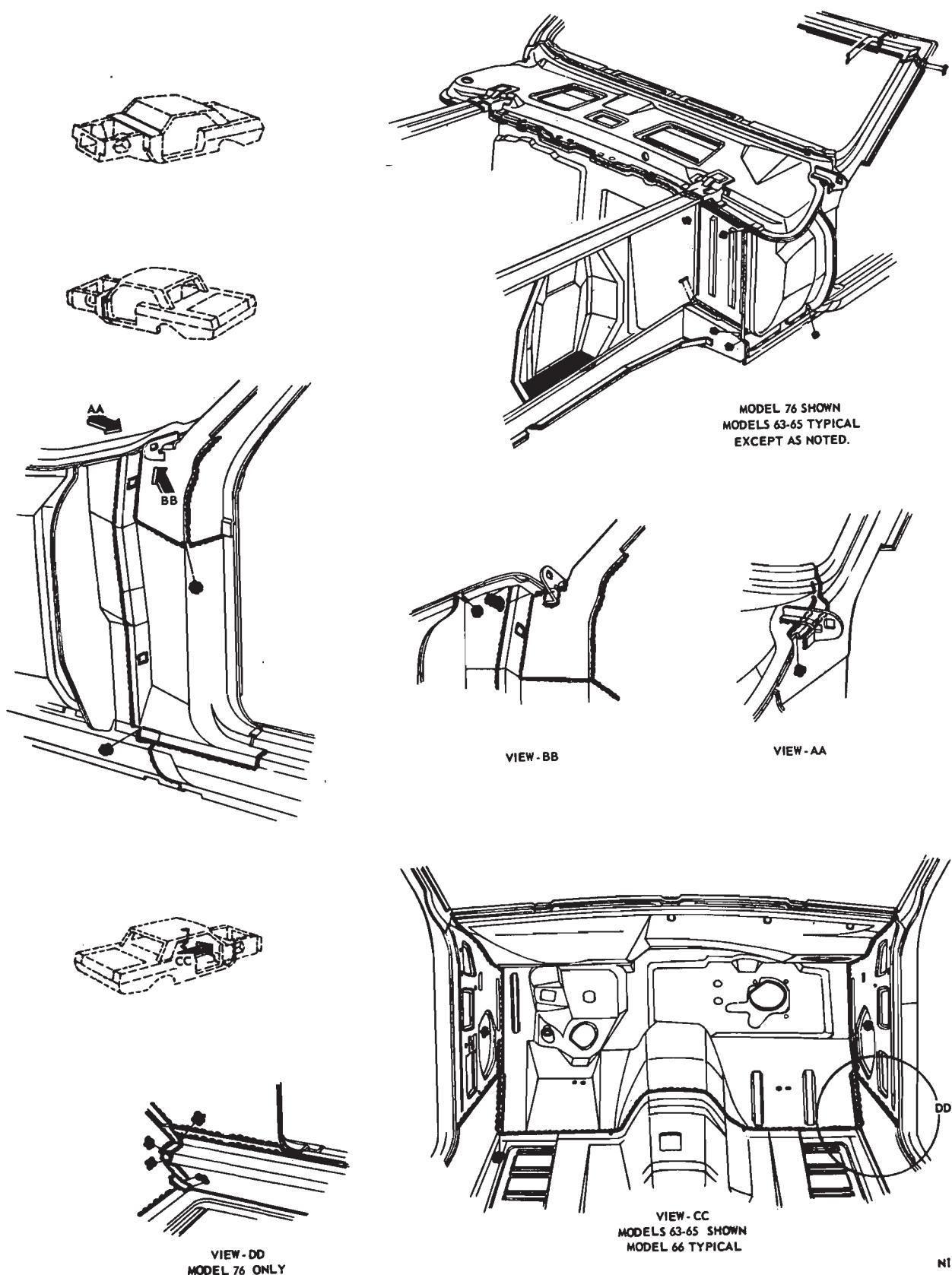


FIG. 59—Cowl and Dash Panel Sealer Locations—Mustang and Cougar

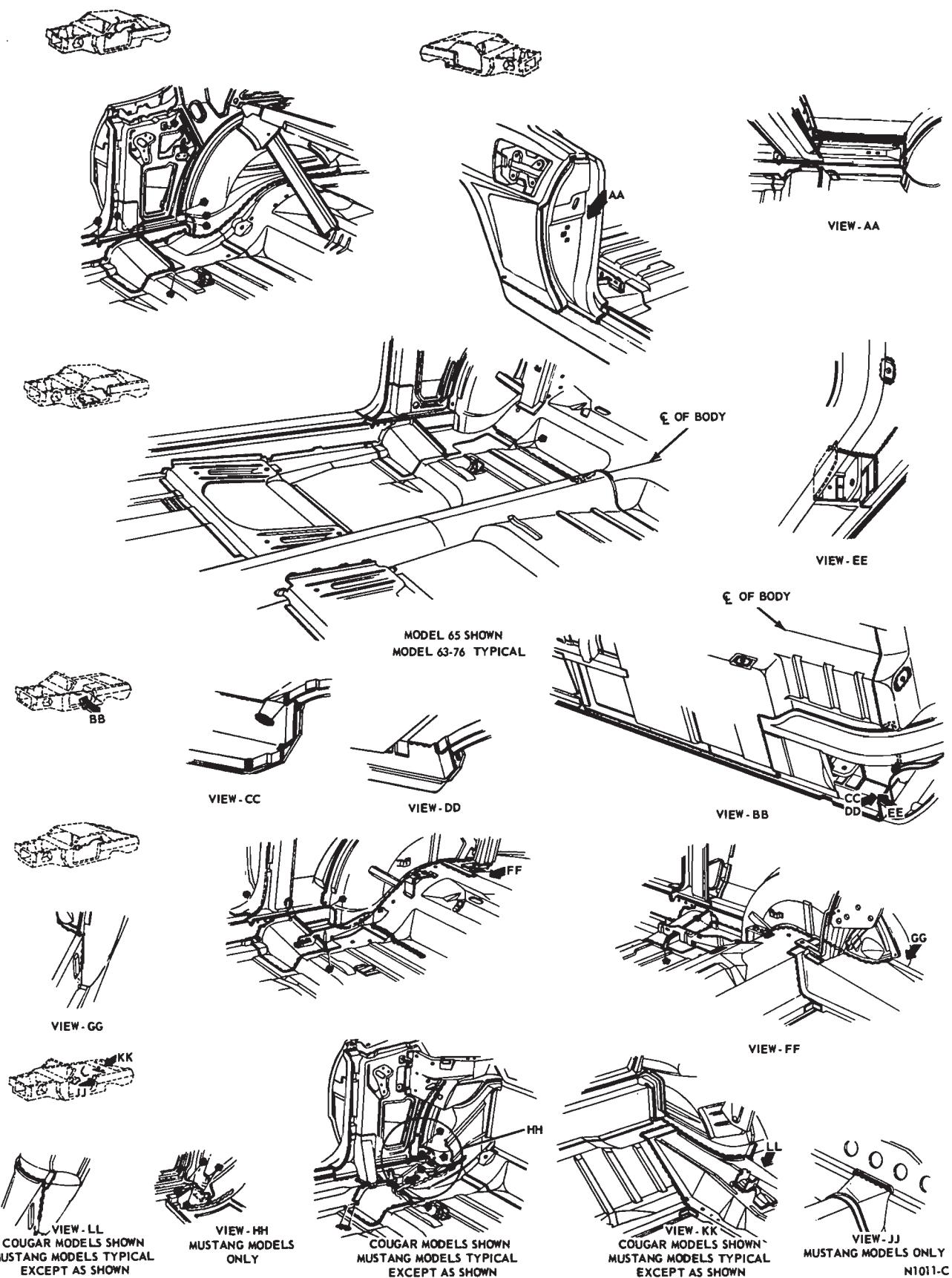


FIG. 60—Body Side and Rear Floor Sealer Locations—Mustang and Cougar

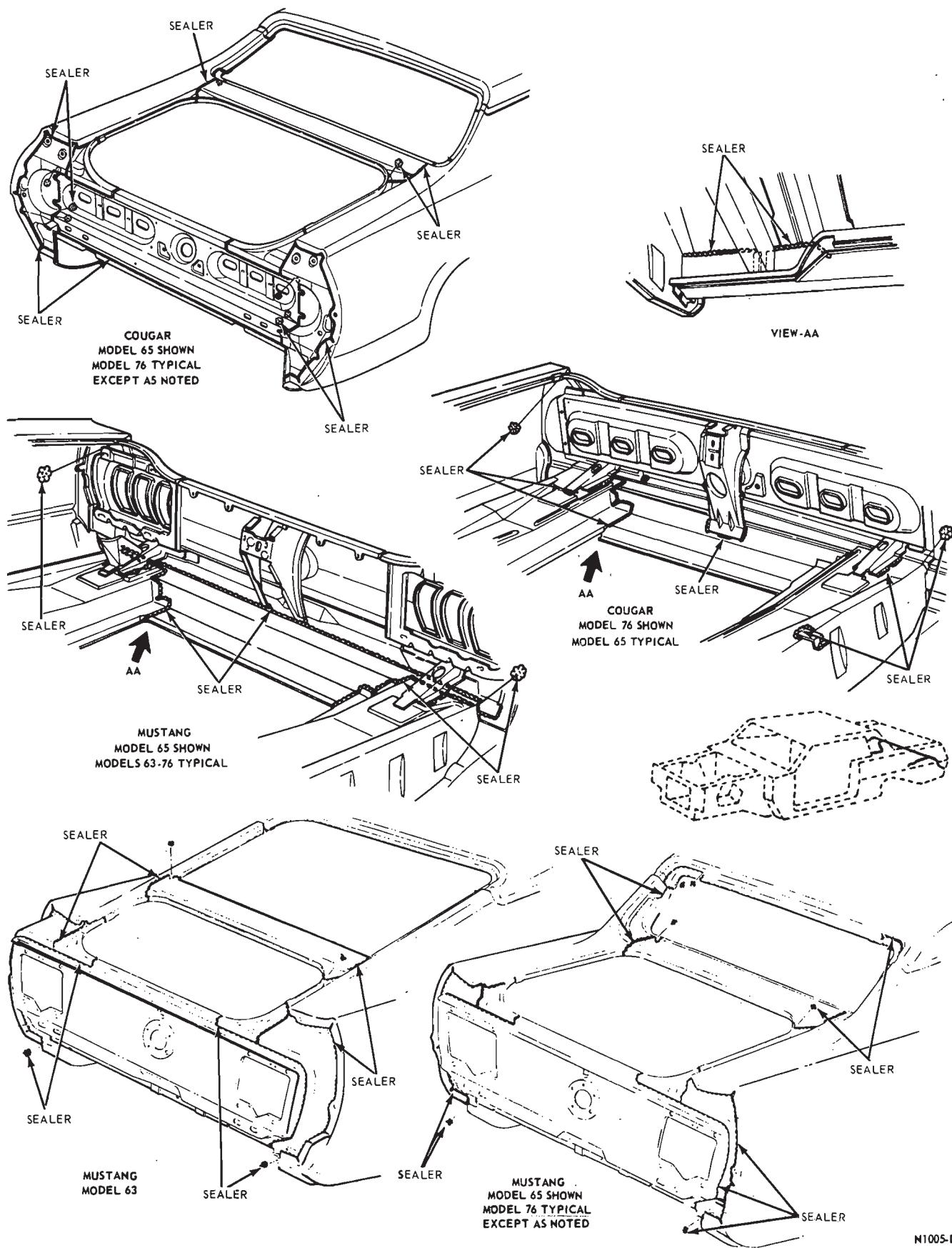


FIG. 61—Body Rear Sealer Locations—Mustang and Cougar

N1005-D

PART 48-05 Frames and Underbody

COMPONENT INDEX Applies to Models As Indicated	All Models	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang	Lincoln- Continental	Thunderbird	Continental- Mark III
BODY ALIGNMENT	05-05												
FRAME ALIGNMENT		05-06	05-06	05-06	N/A	N/A	N/A	N/A	N/A	N/A	05-08	05-07	05-07
FRAME REPAIR		05-05	05-05	05-05	N/A	N/A	N/A	N/A	N/A	N/A	05-05	05-05	05-05
UNITIZED BODY ALIGNMENT		N/A	N/A	N/A	05-03	05-02	05-01	05-04	05-02	05-03	N/A	N/A	N/A
VEHICLE HOISTING	05-09												

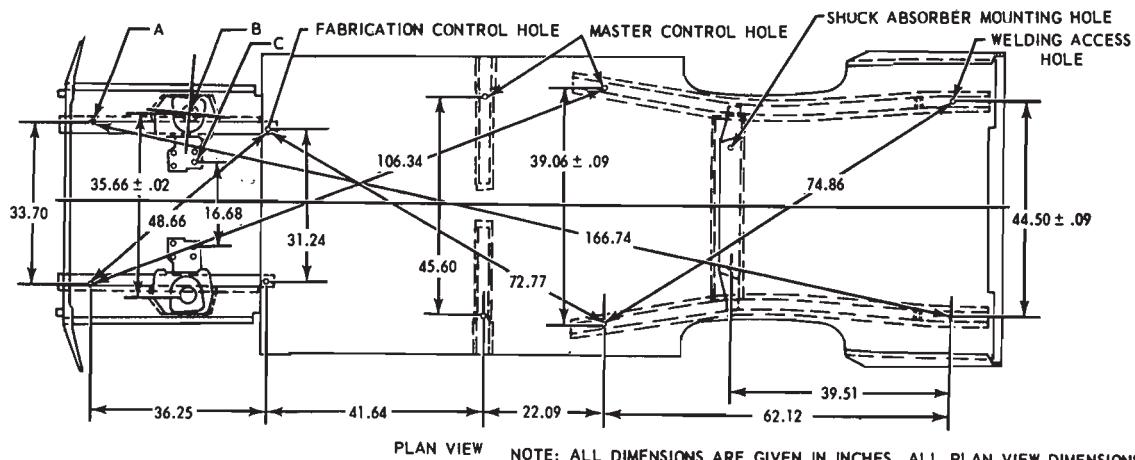
A page number indicates that the item is for the vehicle(s) listed at the head of the column.
N/A indicates that the item is not applicable to the vehicle(s) listed.

1 UNITIZED BODY ALIGNMENT

Servicing the unitized body should present no unusual difficulties or necessitate additional equipment other than that required for the conventional

frame and body repair. The application of heat and the use of heavy-duty jacks must be carefully controlled because of the difference in the

gauge of the metal in the sub-frame of a unitized body and the stress points developed in a single welded unit construction. It is possible to pull



A - BUMPER REAR MOUNTING HOLE OUTSIDE OF SIDE MEMBER
B - C - HOLE IN FRONT SUSPENSION SPRING HOUSING
C - ENGINE MOUNTING HOLE
D - LOWER HOLE FOR STEERING GEAR MOUNTING LEFT SIDE
E - LOWER HOLE FOR IDLER ARM BRACKET MOUNTING RIGHT SIDE

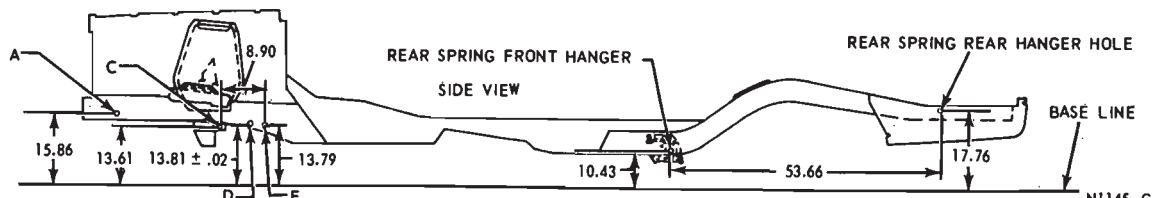
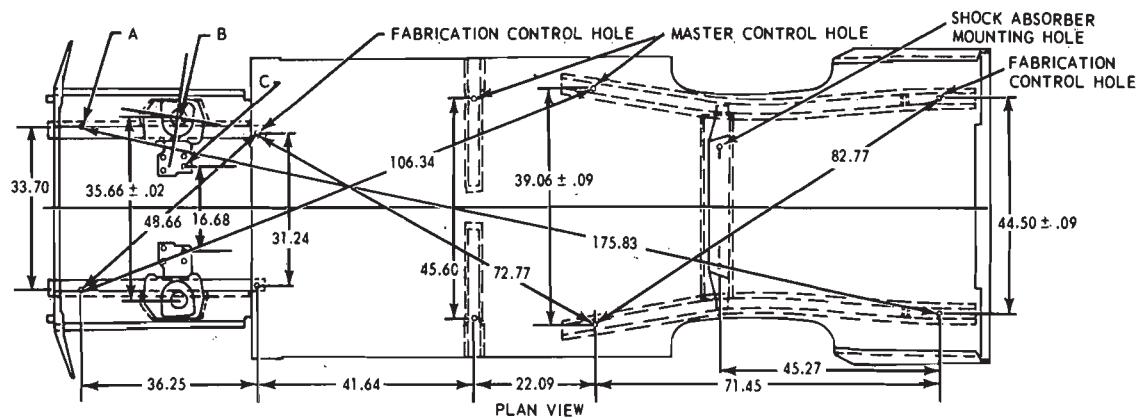
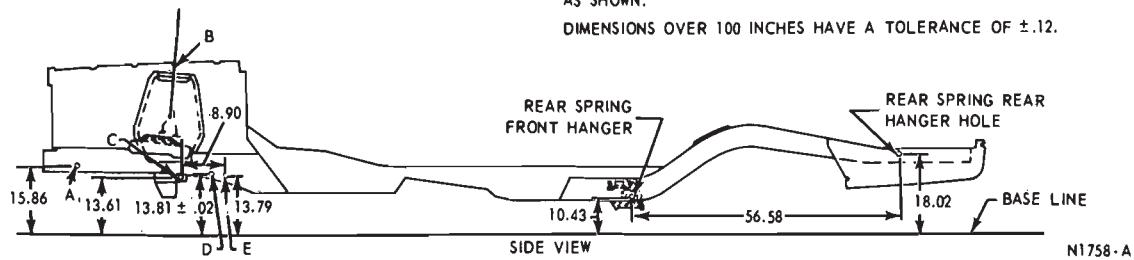


FIG. 1—Falcon Underbody Dimensions



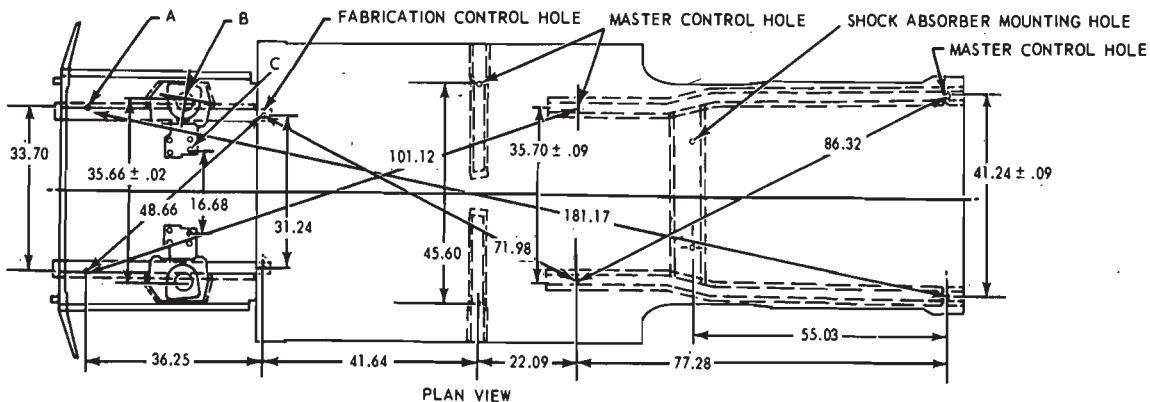
A - BUMPER REAR MOUNTING HOLE OUTSIDE OF SIDE MEMBER
 B - C OF HOLE IN FRONT SUSPENSION SPRING HOUSING
 C - ENGINE MOUNTING HOLE
 D - LOWER HOLE FOR STEERING GEAR MOUNTING LEFT SIDE
 E - LOWER HOLE FOR IDLER ARM BRACKET MOUNTING RIGHT SIDE

NOTE: ALL DIMENSIONS ARE GIVEN IN INCHES. ALL PLAN VIEW DIMENSIONS SHOULD BE PROJECTED DOWNWARD & MEASURED ON A SURFACE WHICH IS PARALLEL TO SIDE VIEW BASE LINE.
 DIAGONAL DIMENSIONS MUST BE EQUAL.
 DIMENSIONS UNDER 100 INCHES HAVE A TOLERANCE OF ±.06 EXCEPT AS SHOWN.
 DIMENSIONS OVER 100 INCHES HAVE A TOLERANCE OF ±.12.



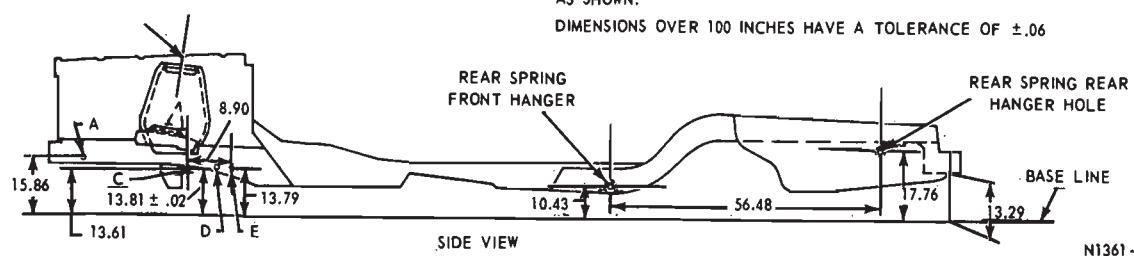
N1758-A

FIG. 2—Fairlane and Montego Underbody Dimensions



A - BUMPER REAR MOUNTING HOLE OUTSIDE OF SIDE MEMBER
 B - C OF HOLE IN FRONT SUSPENSION SPRING HOUSING
 C - ENGINE MOUNTING HOLE
 D - LOWER HOLE FOR STEERING GEAR MOUNTING LEFT SIDE
 E - LOWER HOLE FOR IDLER ARM BRACKET MOUNTING RIGHT SIDE

NOTE: ALL DIMENSIONS ARE GIVEN IN INCHES. ALL PLAN VIEW DIMENSIONS SHOULD BE PROJECTED DOWNWARD & MEASURED ON A SURFACE WHICH IS PARALLEL TO SIDE VIEW BASE LINE.
 DIAGONAL DIMENSIONS MUST BE EQUAL.
 DIMENSIONS UNDER 100 INCHES HAVE A TOLERANCE OF ±.06 EXCEPT AS SHOWN.
 DIMENSIONS OVER 100 INCHES HAVE A TOLERANCE OF ±.06.



N1361-B

FIG. 3—Falcon, Fairlane and Montego Station Wagon Underbody Dimensions

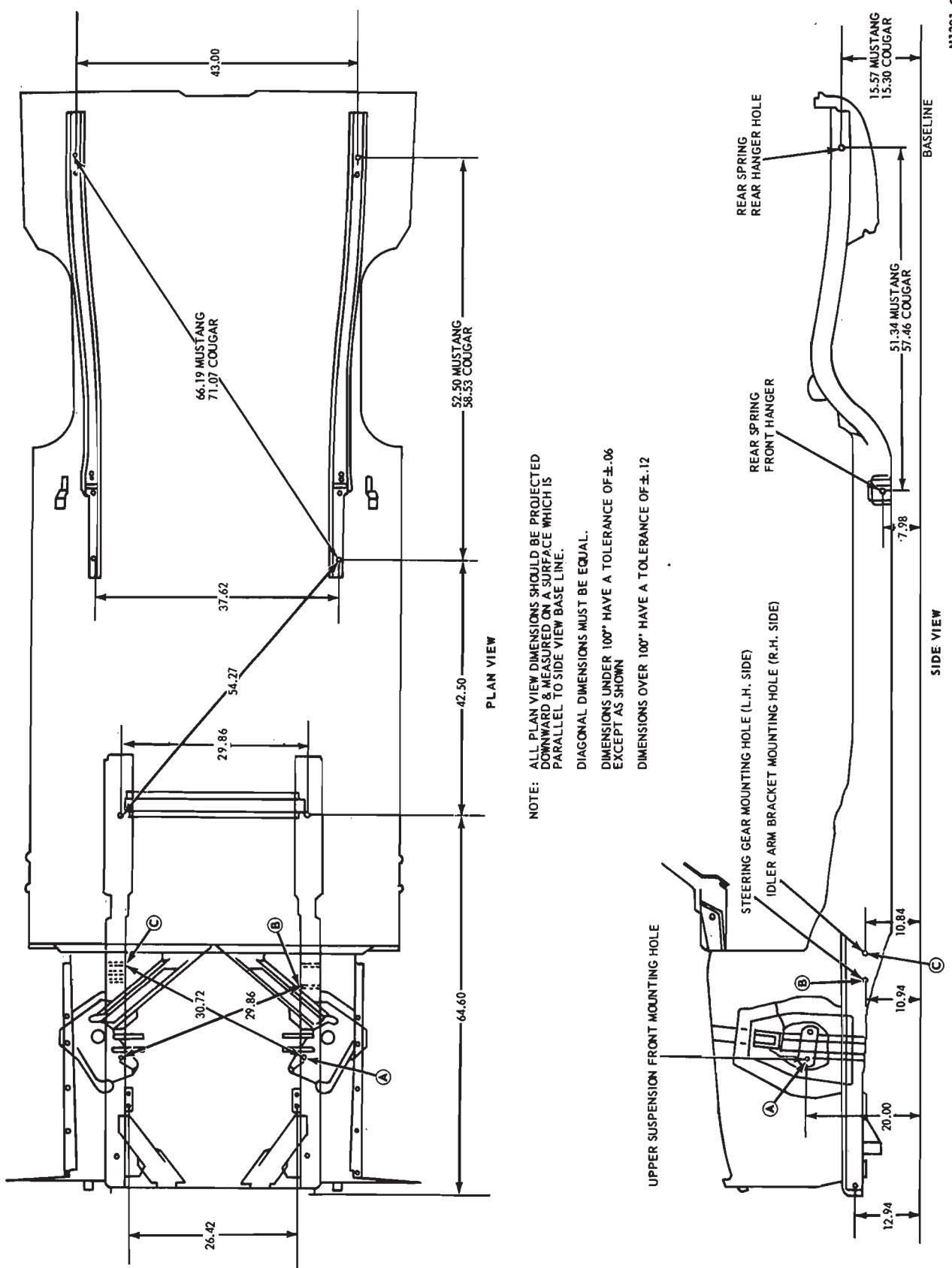


FIG. 4—Mustang and Cougar Underbody Dimensions

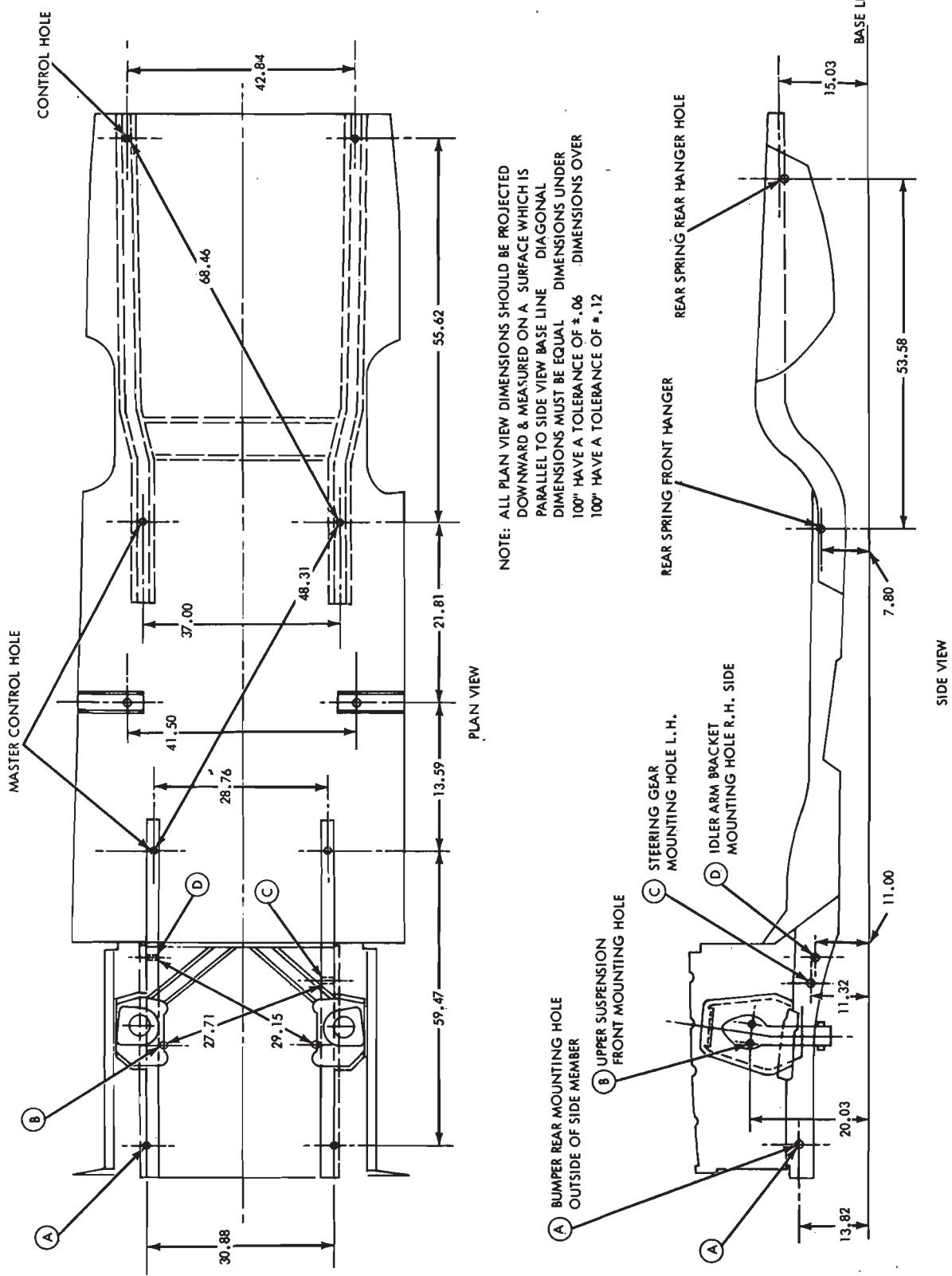


FIG. 5—Maverick Underbody Dimensions

N1849-A

damaged areas back into alignment with the use of light-weight jacks and hydraulic equipment without heating the metal.

Rough out badly damaged areas before taking measurements for squaring up a body. If necessary, remove the glass from the damaged area to prevent damage. In severe cases reinforcement brackets and other inner construction may have to be removed or cut to permit restoration of the outer shell and pillars

without excessive strain on the parts. Straighten, install, and secure all such parts in place before attempting to align the body.

In cases of severe or sharp bends, it may be necessary to use heat. Any attempt to cold-straighten a severely bent bracket may cause ruptures of the welds and may also cause cracks in the bent part. Never heat the area more than a dull red.

CHECKING UNDERBODY FOR MISALIGNMENT

The dimensions of the underbody must be restored in the repair of major body damage, to provide correct front and rear wheel geometry (Figs. 1 through 4). All the dimensions are detailed to the center line of existing holes in the underbody assembly. Once the frame and suspension members are aligned, the balance of the repair can be performed.

2 BODY ALIGNMENT

When checking alignment of a badly damaged body, be sure that all necessary frame corrections have been made before attempting to align the body.

Rough out badly damaged areas before taking measurements for squaring up a body. Remove the glass to prevent breakage. In severe cases, reinforcement brackets and other inner construction may have to be removed or cut to permit restoration of the outer shell and pillars without excessive strain on the parts. Straighten, install and secure all parts in place before attempting to align the body.

In cases of severe or sharp bends, it may be necessary to use heat. Any attempt to cold-straighten a severely bent bracket may cause ruptures of the welds (if any) and may also cause cracks in the bent part. Never heat the area more than enough to give a dull red.

CHECKING BODY FOR MISALIGNMENT

To align or square up a body, take two opposite diagonal measurements between the front, center, or rear pillars. Take the measurements between

reference points such as crease lines or weld joints which are diagonally opposite each other on the two pillars being measured. Since all measurements should be made from the bare metal, remove all interior trim from the checking points.

Do not attempt to correct any serious misalignment with one jacking operation. This is particularly true if other sections of the body also require aligning. Align each section proportionately until the proper dimensions are obtained. If frame alignment is questionable, see Figs. 6 through 8.

3 FRAME ALIGNMENT

Frame misalignment can affect front wheel alignment, body alignment, and the operation of the chassis parts. Window glass cracks, door and window opening troubles, and air or water leaks at the doors are often caused by improperly tightened body bolts (Figs. 6 through 8) or frame misalignment.

Before checking frame alignment, inspect all frame members for cracks, twists, or bends. Check all welded connections for cracks. Inspect the bolts and body support brackets for looseness. Make any necessary repairs or replacements.

The frame dimensions are shown in Figs. 6, 7 and 8.

FRAME REPAIRS

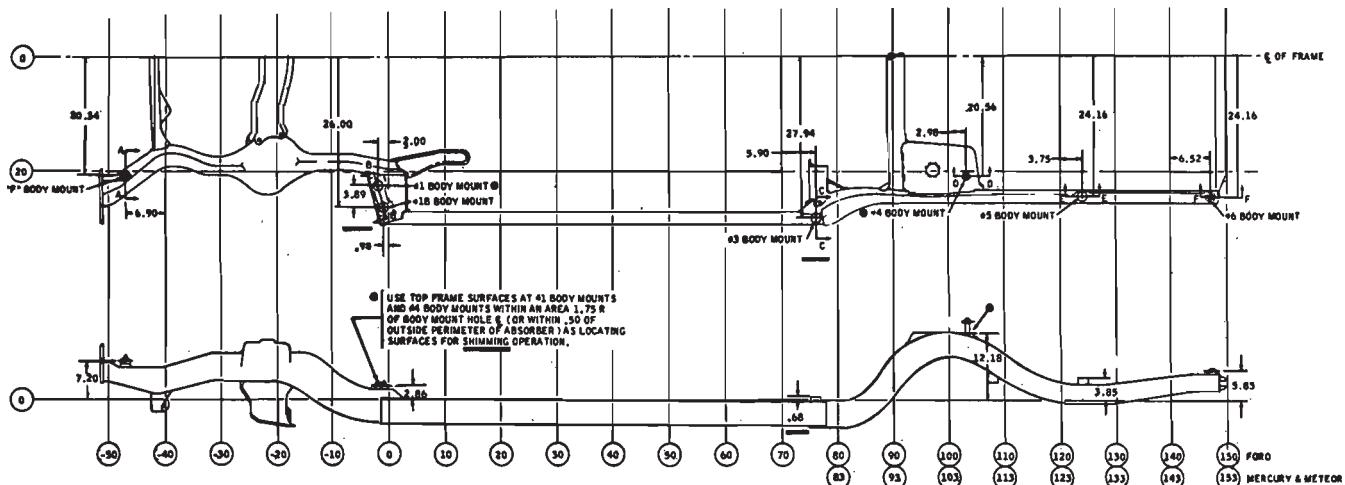
To prevent internal stresses in the metal, frame straightening should be limited to parts which are not severely bent. If heat is needed to straighten a frame member, keep the temperature below 1200 degrees F. Excessive heat may weaken the metal in the frame members and cause permanent damage.

Electric welding equipment should

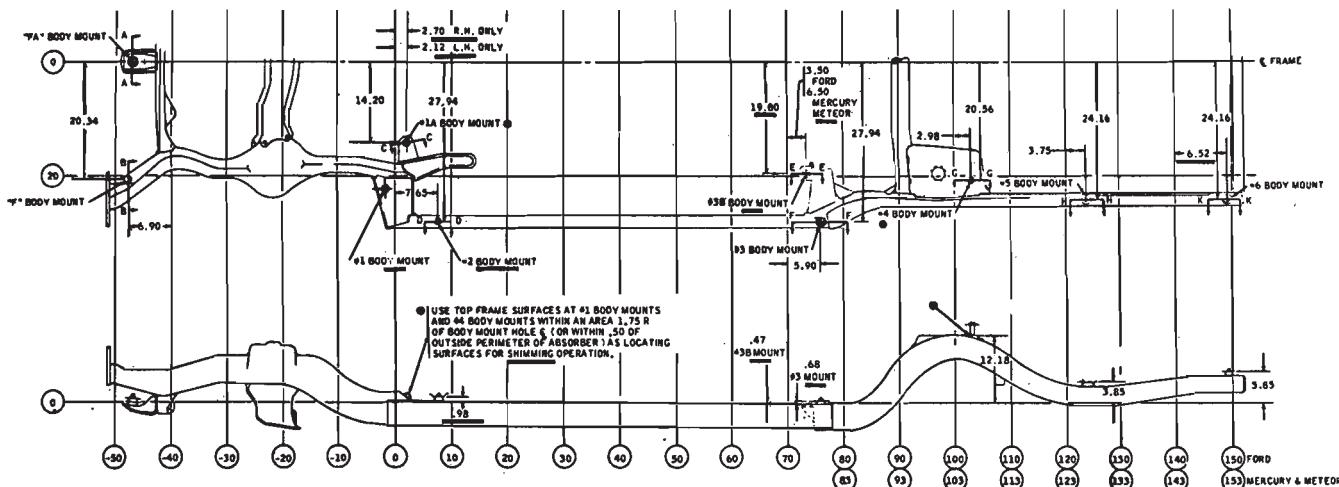
be used for all frame welding and heat should be kept to a minimum area so that the hardness of the metal will not be affected.

When a reinforcement is to be welded to a frame side member, run the welds lengthwise along the side of the reinforcement.

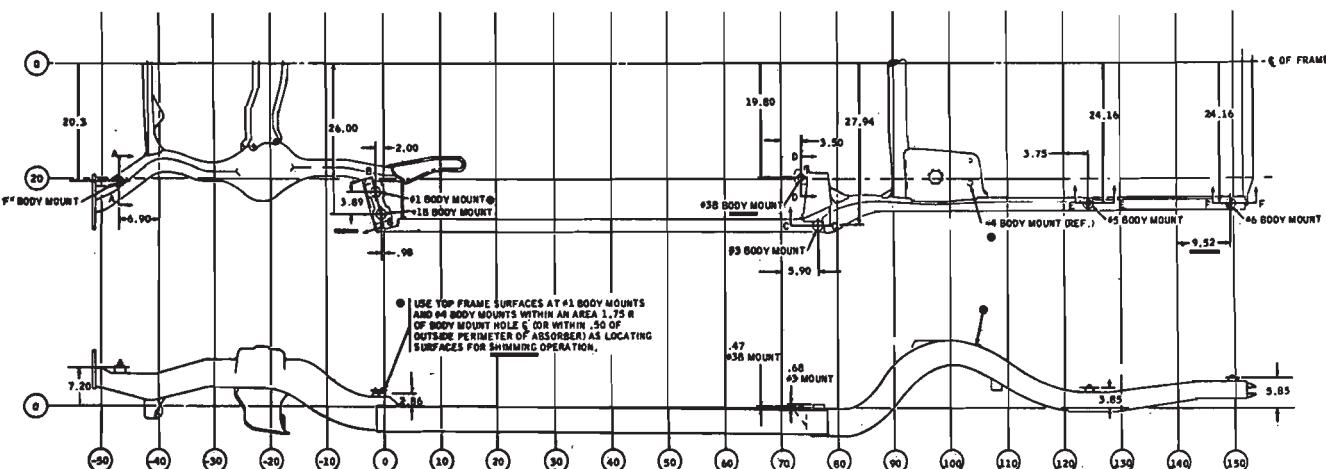
If a damaged frame member is to be replaced, use the same method of attachment as on the original frame member. New bolts, required for replacement of parts, should be of the same specifications as the original bolts.



FORD - MERCURY - METEOR SEDAN



FORD - MERCURY - METEOR CONVERTIBLE



FORD - MERCURY - METEOR STATION WAGON

M1117-B

FIG. 6—Ford, Mercury and Meteor Frame Dimensions

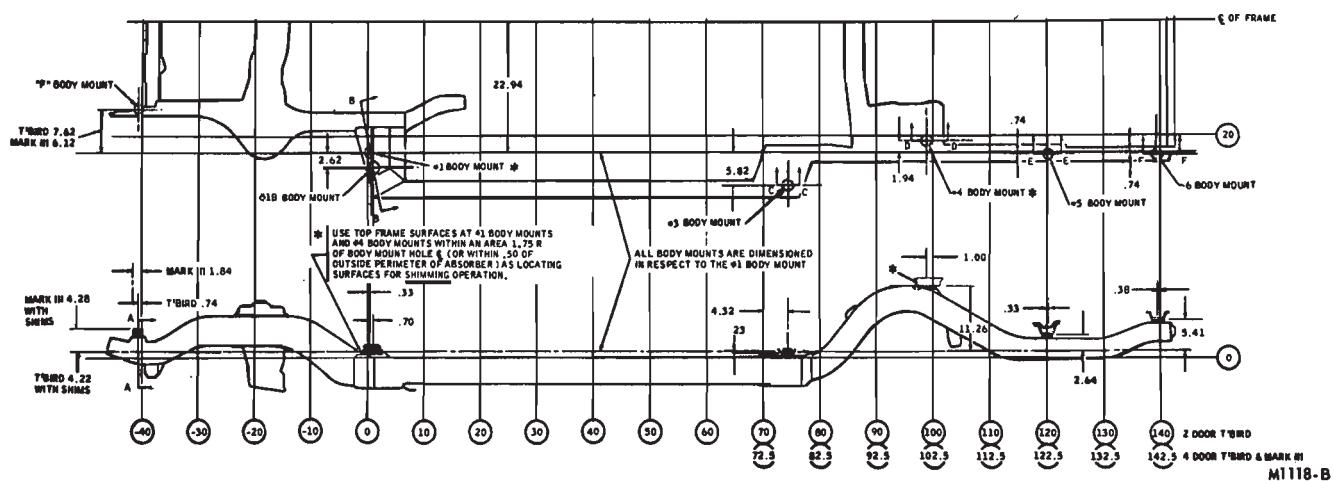
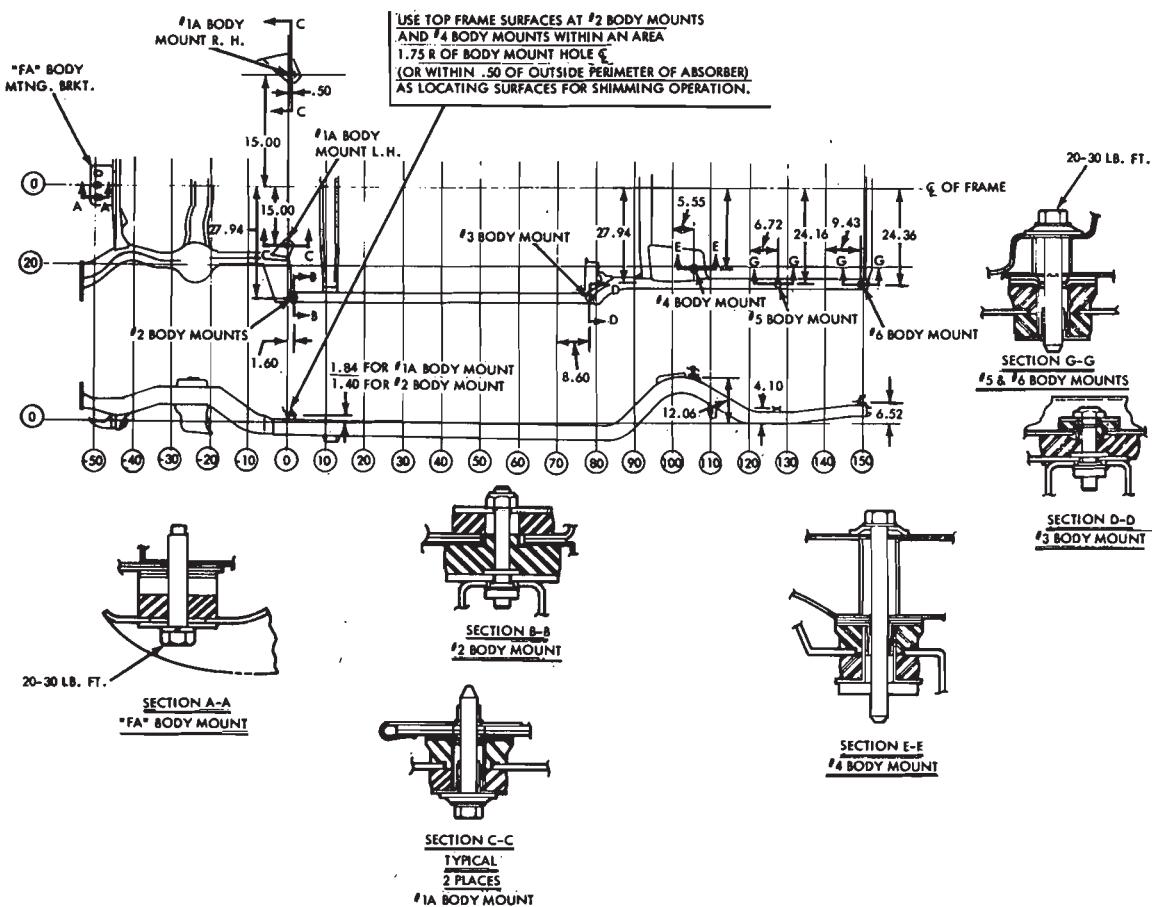


FIG. 7—Thunderbird and Continental Mark III Frame Dimensions



N1821-A

FIG. 8—Lincoln Continental Frame Dimensions

3 VEHICLE HOISTING

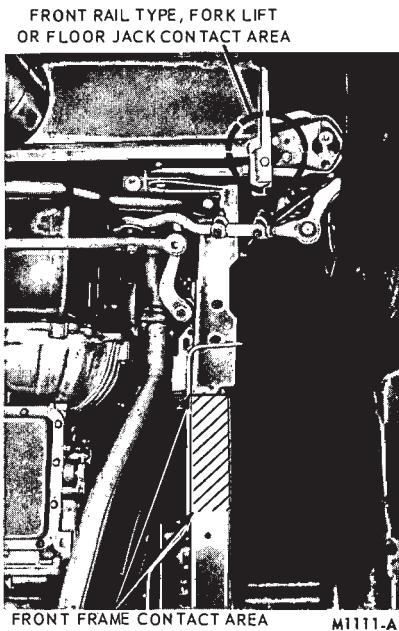


FIG. 9—Front Hoist Contact Areas

The unitized body-frame construction requires special precautions and procedures when the vehicle is jacked up or hoisted. In some cases, special hoist adapters must be used as recommended by specific hoist manufacturers.

Refer to the Owner's Manuals when using the jack supplied with the vehicle.

DRIVE-ON TYPE HOIST

To prevent possible damages to the underbody, do not drive the vehicle onto the drive-on type hoist without first checking for possible interference between the upright flanges of the hoist rails and the underbody. Should there be interference, the hoist flanges should be modified as necessary and/or the approach ramps built up

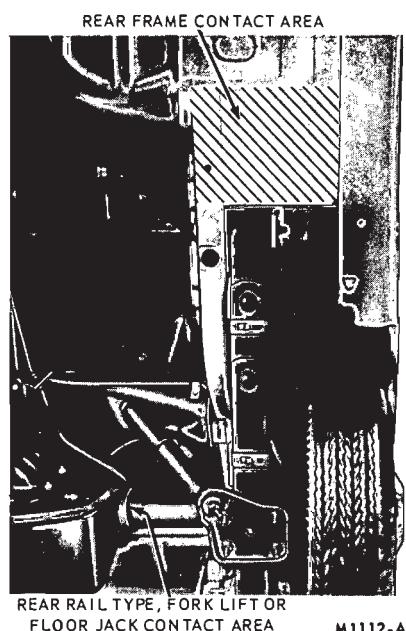


FIG. 10—Rear Hoist Contact Areas

to provide the needed clearance.

RAIL TYPE—FREE WHEELING HOIST

FRONT

The front adapters or hoist plates must be carefully positioned in contact with the lower suspension arms to assure safe, accurate lifting.

REAR

The hoist adapters must be positioned carefully under the rear axle to prevent damage to the shock absorbers when the vehicle is raised. The hoist rails should be raised slowly and the position of the adapters checked.

FORK LIFT—TWIN POST HOIST

FRONT

To assure safe hoisting, the front post adapters must be positioned carefully to contact the center of the lower suspension arms (Figs. 9 and 10).

REAR

To prevent damage to the shock absorbers, the rear forks must contact the axle at points not farther out board than one inch from the circumference welds near the differential housing. Carefully raise the rear post and check the position of the fork (Figs. 9 and 10).

FRAME CONTACT HOIST

Frame contact hoist adapters are necessary to lift the vehicle. The hoist adapter pads should each cover at least 12 square inches of underbody area. Figs. 9 and 10 show recommended contact points for the hoist pads.

FLOOR JACK

When a stationary floor jack or a roll jack is to be used, there are several specific recommended points of contact. Either side of the vehicle may be raised at the front by jack contact at the lower arm strut connection. Either side of the front end of the vehicle may also be raised by jack pressure on the front crossmember, or on the crossmember to which the stabilizer is connected. **Do not attempt to use jack pressure on either front or rear Mustang and Cougar bumpers.**